

General Disclaimer

One or more of the Following Statements may affect this Document

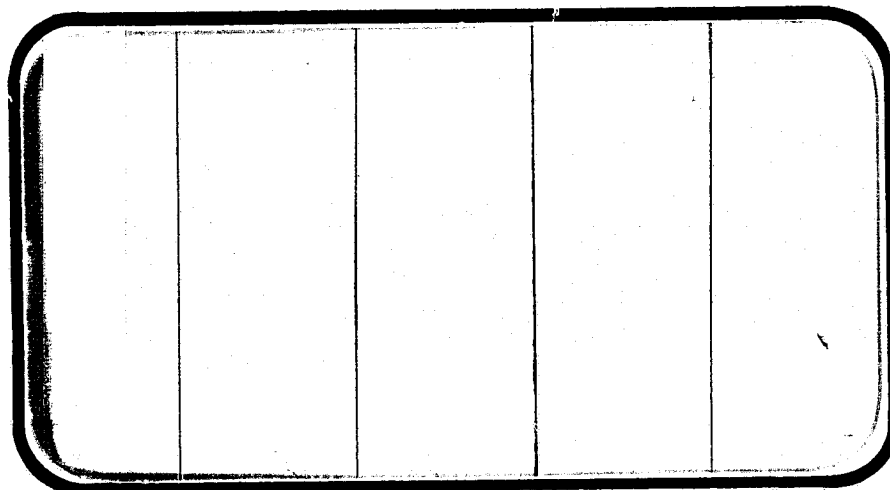
- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

NASA

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

141533



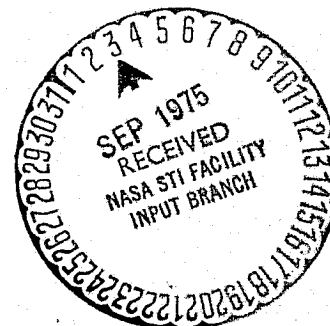
(NASA-CR-141534) DIFFERENTIAL ELEVON
EFFECTIVENESS LATERAL CONTROL OPTIMIZATION
AND ELEVON HINGE MOMENT INVESTIGATION ON A
0.015 SCALE SPACE SHUTTLE ORBITER MODEL 49-0
(140A/B/C MODIFIED) IN THE AECD VKF WIND

N75-29165

Unclas
G3/18 33363

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

June, 1975

DMS-DR-2198
NASA CR-141,534

DIFFERENTIAL ELEVON EFFECTIVENESS LATERAL
CONTROL OPTIMIZATION AND ELEVON HINGE MOMENT
INVESTIGATION ON A 0.015-SCALE SPACE SHUTTLE ORBITER
MODEL 49-0 (140A/B/C MODIFIED) IN THE AEDC VKF
WIND TUNNEL A (0A115)

By

V. Esparza and A. I. Lindsay
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division
Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: AEDC V41A-71A
NASA Series Number: OA115
Model Number: (49-0)
Test Dates: 29 July through 31 July, 1974
Occupancy Hours: 24

FACILITY COORDINATOR:

L. L. Trimmer
VFK-SH
ARO, Inc.
Arnold Air Force Station, Tenn. 37389

Phone: (615) 455-2611, x7377

PROJECT ENGINEERS:

V. Esparsa
A. I. Lindsay
Rockwell International
Space Division
12214 Lakewood Blvd.
Mail Code AC07
Downey, California 90241

Phone: (213) 922-4620

AERODYNAMICS ANALYSIS ENGINEER:

L. G. Zerby
Rockwell International
Space Division
12214 Lakewood Blvd.
Mail Code AC07
Downey, California 90241

Phone: (213) 922-2092

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--D. A. Sarver, J. E. Vaughn
Operations--M. M. Mann

Reviewed by: D. E. Poucher, J. L. Glynn *jk.*

Approved: *W. D. Kemp*
W. D. Kemp, Manager
Data Management Services

Concurrence: *R. D. Taylor*
J. G. Swider, Manager
Flight Technology Branch

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

DIFFERENTIAL ELEVON EFFECTIVENESS LATERAL
CONTROL OPTIMIZATION AND ELEVON HINGE MOMENT
INVESTIGATION ON A 0.015-SCALE SPACE SHUTTLE ORBITER
MODEL 49-0 (140A/B/C MODIFIED) IN THE AEDC VKF
WIND TUNNEL A (0A115)

By

A. I. Lindsay and V. Esparza, Rockwell International Space Division

ABSTRACT

Experimental aerodynamic investigations were conducted during the period of 29 July through 31 July 1974 in the Arnold Engineering Development Center (AEDC) VKF Tunnel A on a 0.015-scale model of the Space Shuttle Orbiter, configuration 140A/B/C modified.

The objectives of this test were as follows: 1) determine supersonic differential elevon/aileron lateral control optimization, 2) determine supersonic elevon hinge moments, 3) determine the supersonic effects of the new baseline 6-inch elevon/elevon and elevon/fuselage gaps and 4) determine the supersonic effects of the new short (VL70-008410) OMS pods.

Six-component aerodynamic force, moment and elevon hinge moment data were recorded. The data was recorded for angles of attack of -3, 0, 5, 10, 15, 20, 25 and 27 degrees at 0 degrees sideslip angle, and over a sideslip range of -3, -2, -1, 0, 1, 2, and 3 at an angle of attack of 21 degrees.

Mach numbers tested were: 2.0, 2.5, 4.0 and 5.0 while the Reynolds number per unit length had values of 2.34×10^6 , 2.58×10^6 , 2.88×10^6 , and 2.64×10^6 .

TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
INDEX OF DATA FIGURES	3
NOMENCLATURE	6
CONFIGURATIONS INVESTIGATED	11
TEST FACILITY DESCRIPTION	13
DATA REDUCTION	14
TABLES	
I. TEST CONDITIONS	16
II. DATA SET/RUN NUMBER COLLATION SUMMARY	17
III. MODEL DIMENSIONAL DATA	20
FIGURES	
MODEL	32
DATA	38
APPENDIX	
TABULATED SOURCE DATA	

INDEX OF MODEL FIGURES

Figures	Title	Page
1.	Axis systems.	32
2.	Model sketches.	
	a. SSV Orbiter Configuration 140A/B	33
	b. Configuration Diagram	34
	c. Base and Cavity Pressure Locations	35
3.	Model photographs.	
	a. Side View of Orbiter	36
	b. Aft View of Orbiter Showing Base Pressure Instrumentation	37

INDEX OF DATA FIGURES

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED	CONDITIONS VARYING	PAGES
FIG. 4	EFFECT OF OMS PODS (BODY FLAP = 0, SPEED BRAKE = 55)	(A)	CONFIGURATION	1-51
FIG. 5	EFFECT OF SEALED ELEVON GAP (BODY FLAP = 0, SPEED BRAKE = 85)	(A)	CONFIGURATION	52-68
FIG. 6	EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP = 0, SPEED BRAKE = 55)	(A)	CONFIGURATION	69-85
FIG. 7	FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP = 0, SPEED BRAKE = 55/85)	(A)	ELV-LO, ELV-LI ELV-RO, ELV-RI	86-136
FIG. 8	INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS	(B)	ALPHA, DLTELO	137-178
FIG. 9	ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS	(C)	ALPHA, ELV-LO	179-214
FIG. 10	INBOARD ELEVON EFFECT, W/OUTBOARDS UNDEFLECTED (B. FLAP = 0, SPD BRK = 85)	(A)	ELV-LI, ELV-RI	215-231
FIG. 11	INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS	(D)	ALPHA, DLTELI	232-245
FIG. 12	ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED	(E)	ALPHA, ELV-LI	246-257
FIG. 13	OUTBOARD ELEVON EFFECT, W/INBOARDS UNDEFLECTED (B. FLAP = 0, SPD BRK = 85)	(A)	ELV-LO, ELV-RO	258-274
FIG. 14	INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS	(F)	ALPHA, DLTELO	275-288

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	SCHEDULE OF COEFFICIENTS PLOTTED	CONDITIONS VARYING	PAGES
FIG. 15	ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED	(G)	ALPHA, ELV-LO	289-300
FIG. 16	FULL SPAN AILERON EFFECTIVENESS (BODY FLAP = 0, SPEED BRAKE = 85)	(A)	ELV-LO, ELV-LI ELV-RO, ELV-RI	301-317
FIG. 17	INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS	(H)	ALPHA, DLTELO	318-337
FIG. 18	AILERON HINGE MOMENTS - FULL SPAN DEFLECTIONS	(I)	ALPHA, ELV-LO	338-349
FIG. 19	INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS	(J)	ALPHA, ALERON	350-351
FIG. 20	INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS	(K)	ALPHA	352-357
FIG. 21	INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS	(L)	ALPHA, ALRNOB	358-369
FIG. 22	INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS	(K)	ALPHA, ELV-OB	370-381

INDEX OF DATA FIGURES (Concluded)

SCHEDULE OF COEFFICIENTS PLOTTED:

- (A) CN, CLMFW, CLMAFT, XCP/L, CA, CAF, CAB, CY, L/D, CL, CD, CHEI, CHEO, CHET VERSUS ALPHA
CLMAFT VERSUS CN; CLMFW VERSUS CN; CL VERSUS CD
- (B) DLTCL, DLTCN, DLTC, DLTCMF, DLTCMA, DLTCA, DLTCF, VERSUS DLTELV
- (C) CHEI, CHEO, CHET VERSUS ELEVON
- (D) DLTCL, DLTCN, DLTC, DLTCMF, DLTCMA, DLTCA, DLTCF, VERSUS DLTELI
- (E) CHEI, CHEO, CHET VERSUS ELV-LI
- (F) DLTCL, DLTCN, DLTC, DLTCMF, DLTCMA, DLTCA, DLTCF, VERSUS DLTELV
- (G) CHEI, CHEO, CHET VERSUS ELV-OB
- (H) DLTCL, DLTCN, DLTC, DLTCMF, DLTCMA, DLTCA, DLTCF, DLTCY, DLTCYN, DLTCBL, VERSUS DLTARN
- (I) CHEI, CHEO, CHET VERSUS ALERON
- (J) DLTCYN, DLTCBL VERSUS ALERON
- (K) DCYNDA, DCBLDA VERSUS ELV-OB
- (L) DLTCYN, DLTCBL VERSUS ALRNOB

NOMENCLATURE General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_1 - p_{\infty})/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2 , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2 , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3 , slugs/ft ³

Reference & C.G. Definitions

A_b		base area; m^2 , ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
\bar{L}_{REF} \bar{c}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2 , ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

DATE: August, 1975

PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: DMS-DR-2198
TITLE: DIFFERENTIAL ELEVON EFFECTIVENESS LATERAL CONTROL OPTIMIZATION AND
ELEVON HINGE MOMENT INVESTIGATION ON A 0.015-SCALE SPACE SHUTTLE ORBITER
MODEL 49-0 (140A/B/C MODIFIED) IN THE AEDC VKF WIND TUNNEL A (0A115)
NUMBER: DR-2198 DATE: June 1975 BRANCH: Flight Technology

Correct NASA CR number to read 141,533. Affected is
cover page.

Prepared by: Operations--Maurice Moser, Jr.

Reviewed by: G. G. McDonald, J. L. Glynn *JL*

Approved: *N. D. Kemp*
N. D. Kemp, Manager
Data Management Services

Concurrence: *J. G. Swider*
J. G. Swider, Manager
Flight Technology Branch

PAGE 1 OF 1

DISTRIBUTION SAME AS FOR
ABOVE PUBLICATION

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

June, 1975

DMS-DR-2198
NASA CR-141,533

DIFFERENTIAL ELEVON EFFECTIVENESS LATERAL
CONTROL OPTIMIZATION AND ELEVON HINGE MOMENT
INVESTIGATION ON A 0.015-SCALE SPACE SHUTTLE ORBITER
MODEL 49-0 (140A/B/C MODIFIED) IN THE AEDC VKF
WIND TUNNEL A (0A115)

By

V. Esparza and A. I. Lindsay
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division
Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D _f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (Continued)
Additions to Nomenclature

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
δe_{LO}	ELE-LO	left outboard elevon surface deflection angle, positive deflection trailing edge down; degrees
δe_{LI}	ELE-LI	left inboard elevon surface deflection angle, positive deflection trailing edge down; degrees
δe_{RO}	ELE-RO	right outboard elevon surface deflection angle, positive deflection trailing edge down; degrees
δe_{RI}	ELE-RI	right inboard elevon surface deflection angle, positive deflection trailing edge down; degrees
$C_{H_{eI}}$	CHEI	inboard elevon hinge moment coefficient
$C_{H_{eo}}$	CHEO	outboard elevon hinge moment coefficient
$C_{H_{e\text{total}}}$	CHET	total elevon hinge moment coefficient
δ_{SB}	SPDBRK	speed brake deflection angle (parallel to freestream), degrees
δ_R	RUDDER	rudder deflection angle, degrees
δ_{BF}	BDFLAP	body flap deflection angle, degrees
X_{cp}/λ_b	XCP/L	normal force center of pressure, percent reference length
$C_{m_{AFT}}$	CLMAFT	pitching moment coefficient at .675 body length (aft C.G.)
$C_{m_{FWD}}$	CLMFWD	pitching moment coefficient at .65 body length (forward C.G.)

NOMENCLATURE (Continued)
Additions to Nomenclature

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
δ_a	ALERON	full span aileron deflection angle, degrees
δ_{aOB}	ALRNOB	outboard aileron deflection angle, degrees
δ_e	ELEVON	elevon surface deflection angle, degrees
δ_{eOB}	ELV-OB	outboard elevon surface deflection angle, degrees
$\Delta\delta_a$	DLTARN	incremental full span aileron deflection angle, degrees
$\Delta\delta_{eLI}$	DLTELI	incremental inboard elevon deflection angle, degrees
$\Delta\delta_{eLO}$	DLTELO	incremental outboard elevon deflection angle, degrees
$\Delta\delta_e$	DLTELV	incremental full span elevon deflection angle, degrees
$C_{n_{\delta a}}$	DCYNDA	incremental yawing moment coefficient variation with aileron deflection, degrees
$C_{l_{\delta a}}$	DCBLDA	incremental rolling moment coefficient variation with aileron deflection, degrees
ΔC_A	DLTCA	incremental axial force coefficient
ΔC_{AB}	DLTCAB	incremental base axial force coefficient
ΔC_{AF}	DLTCAF	incremental forebody axial force coefficient
ΔC_l	DLTCBL	incremental rolling moment coefficient
ΔC_D	DLTCD	incremental drag coefficient
ΔC_L	DLTCL	incremental lift coefficient
$\Delta C_{m_{AFT}}$	DLTCMA	incremental pitching moment coefficient (aft C.G.)

NOMENCLATURE (Concluded)
Additions to Nomenclature

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$\Delta C_{m_{FWD}}$	DLTCMF	incremental pitching moment coefficient (fwd. C.G.)
ΔC_N	DLTCN	incremental normal force coefficient
ΔC_n	DLTCYN	incremental yawing moment coefficient

CONFIGURATIONS INVESTIGATED

The test vehicle was a 0.015-scale model of the Space Shuttle Orbiter. It was sting mounted in the wind tunnel utilizing AEDC VKF #58 internal strain gage balance to measure six-component aerodynamic force and moment data. The left hand inboard and outboard elevon panels were strain gage instrumented for elevon hinge moment measurements.

The model was tested over an angle of attack range of -3 to 27 degrees. The model angle of sideslip was -3 to +3 degrees. Rudder deflections of 0° and -10° were tested with speed brake deflections of 25°, 55° and 85°. The speed brake setting of 55/85 denotes deflection of 55 degrees at Mach numbers of 2.0, 2.5 and 4.0 and 85 degrees for Mach numbers of 5.0. The elevon positions tested were -40, -20, -10, -5, -2, 0, 2, 5, 10 and 20 degrees. The vehicle body flap deflection was fixed at 0 degrees throughout the test except for the tuft run where it was 16.3 degrees. The model configuration is summarized below:

- O₁ = B26 C9 E43 F8 M₁₆ N28 R5 V8 W₁₁₆
- O₂ = B26 C9 E43 F8 R5 V8 W₁₁₆
- O₃ = B26 C9 E43 F8 M7 N28 R5 V8 W₁₁₆
- O₄ = O₁ + Tufts
- O₅ = B26 C9 E43 F8 M₁₆ N24 N28 R5 V8 W₁₁₆

Component

Definition

B26

fuselage per Rockwell Lines VL70-000143B, -000200, -000205, -006089, -000145, -000140A, (model drawing SS-A00147)

CONFIGURATIONS INVESTIGATED (Concluded)

<u>Component</u>	<u>Definition</u>
C ₉	canopy per Rockwell Lines VL70-000143A, -000143B, and VL70-000140A (model drawing SS-A00147)
E ₄₃	slotted version (6-inch) of E26 elevons per Rockwell Lines VL70-000200, VL70-006089, VL70-006092 (model drawing SS-A00148)
E ₂₆	elevons per Rockwell Lines VL70-000200 (model drawing SS-A00148)
F ₈	body flap per Rockwell Lines VL70-000140A, VL70-000145 (model drawing SS-A00147)
M ₁₆	OMS/RCS pods per Rockwell Lines VL70-000140C, VL70-008410 (model drawing SS-A00147)
M ₇	OMS/RCS pods per Rockwell Lines VL70-000140A, VL70-000145 (model drawing SS-A00147)
N ₂₄	OMS engine nozzle per Rockwell Lines VL70-005030A, VL70-000140A (model drawing SS-A00147)
N ₂₈	OMS engine nozzle per Rockwell Lines VL70-000140A, VL70-000145 (model drawing SS-A00147)
R ₅	rudder per Rockwell Lines VL70-000146A, VL70-000095, VL70-000139 (model drawing SS-A00148)
V ₈	vertical tail per Rockwell Lines VL70-000146A (model drawing SS-A00148)
W ₁₁₆	wing per Rockwell Lines VL70-000140B, - 000200 (model drawing SS-A00148)

TEST FACILITY DESCRIPTION

The AEDC von Karman Facility (VKF) Tunnel A is a continuous, closed circuit, variable density wind tunnel with an automatically driven flexible-plate-type nozzle and a 40- by 40-in. test section. The tunnel can be operated at Mach numbers from 1.5 to 6 at maximum stagnation pressures from 29 to 200 psia, respectively, and stagnation temperatures up to 750°R ($M = 6$). Minimum operating pressures range from about one tenth to one-twentieth of the maximum at each Mach number. A description of the tunnel and airflow calibration information may be found in the Test Facilities Handbook*.

*Test Facilities Handbook (Ninth Edition). "von Karman Gas Dynamics Facility, Vol. 3", Arnold Engineering Development Center, July 1971.

DATA REDUCTION

The aerodynamic forces and moments recorded by the internal strain gage balance were reduced to coefficient form in the body and stability axis systems utilizing the following reference dimensions:

<u>Symbol</u>	<u>Definition</u>	<u>Model Scale</u>	<u>Full Scale</u>
A_B	total base area excluding sting cavity, ft ²	0.06080	270.2
A_{SC}	sting cavity area, ft ²	0.03409	151.5
S_{ref}	wing planform area, ft ²	0.60525	2690.0
l_b	body reference length, in	19.3545	1290.3
$\bar{c}(l_{ref})$	wing M.A.C., in.	7.1222	474.81
b_{ref}	wing span, in	14.0502	936.68
\bar{c}_e	elevon M.A.C., in.	1.3605	90.7
S_e	elevon reference area, ft ²	0.04725	210.0
$S_e \bar{c}_e$	elevon area moment, ft ² -in	0.06428	19,047

Moments are referenced about model station 16.150 (fuselage station 1076.68) on the fuselage at model water line 5.625 (full scale water line 375).

Model base and cavity pressures were measured during the test and have been used to correct the data for model base effects. Location and areas for these pressures were as shown in figure 2C.

Axial force coefficients were determined as follows:

$$C_A = C_{A_U} - C_{A_{SC}}$$

$$C_{A_F} = C_{A_U} - C_{A_B}$$

where: C_{A_U} = axial force coefficient unadjusted for base or sting cavity pressures

$C_{A_{SC}}$ = sting cavity axial force coefficient

C_{A_B} = base axial force coefficient

The inboard elevon hinge moment coefficient is calculated by:

$$C_{H_{eI}} = \frac{H_{M_{eI}}}{q S_e \bar{c}_e}$$

The outboard elevon hinge moment coefficient is calculated by:

$$C_{H_{eo}} = \frac{H_{M_{eo}}}{q S_e \bar{c}_e}$$

The total elevon hinge moment coefficient is calculated by:

$$C_{H_{eTotal}} = C_{H_{eI}} + C_{H_{eo}}$$

TABLE I

[illegible]

TABLE II.

TEST: OA 115		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 29 JULY						
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS			
		α	β	δ_{eL0}	δ_{eL1}	δ_{eR0}	δ_{eR1}	δ_{BF}	δ_{SB}^*	δ_R						2.0	2.5	4.0
RTV001	O ₄	A	0	20	20	-20	-20	16.3	85	-10						1		
RTV002	O ₄	21	B	20	20	-20	-20	16.3	85	-10						2		
RTV003	O ₁ + Rudder Press	A	0	0	0	0	0	0	85	0					10	3		
RTV004	O ₁ + Rudder Press	A	0	0	0	0	0	0	55	0					9	6		
RTV005	O ₁	A	0	0	0	0	0	0	55	0					8	7	80	14
RTV006	O ₁	A	0	0	0	0	0	0	85	0					11	4	86	13
RTV007	O ₁	21	B	0	0	0	0	0	85	0								12
RTV008	O ₂	A	0	0	0	0	0	0	55	0					94		82	17
RTV009	O ₂	21	B	0	0	0	0	0	55	0								18
RTV010	O ₃	A	0	0	0	0	0	0	55	0					95		83	19
RTV011	O ₃	21	B	0	0	0	0	0	55	0								20
RTV012	O ₁	A	0	0	0	0	0	0	55	-10					102		84	21
RTV013	O ₁	21	B	0	0	0	0	0	55	-10								22
RTV014	O ₁	A	0	0	0	0	0	0	85	-10					103		85	23
RTV015	O ₁	21	B	0	0	0	0	0	85	-10					105			24
RTV016	O ₁	A	0	-2	-2	2	2	0	85	0								25
RTV017	O ₁	A	0	-5	-5	5	5	0	85	0								26
RTV018	O ₁	A	0	-10	-10	10	10	0	85	0								27
		1	7	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97
		CM, CAX, CAB, CLMFWD, CY, CA, CBL, XCP/L, CL, CD																
		COEFFICIENTS																
		α A = -3, 0, 5, 10, 15, 20, 25, 27																
		β B = -3, -2, -1, 0, 1, 2, 3																
		$\delta_{SB}^* = 55/85$ INDICATES 55° at $M=2.0$, 2.5 and 4.0 and 85° at $M=5.0$.																

TEST RUN NUMBERS

TABLE II. Continued.

TEST: OA 115			DATA SET/RUN NUMBER COLLATION SUMMARY											DATE: 29 JULY				
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS			
		α	β	δ_{ELO}	δ_{ELI}	δ_{ERS}	δ_{ERO}	δ_{RF}	δ_{SR}	δ_R						2.0	2.5	4.0
RTV019	O ₁	21	B	-10	-10	10	10	0	85	0								28
RTV020	O ₁	A	0	20	20	20	20	0	55/85	0					97		87	55
RTV021	O ₁	A	0	10	0	0	10	0	55/85	0								56
RTV022	O ₁	A	0	10	0	0	-10	0	55/85	0					101		30	57
RTV023	O ₁	21	B	10	0	0	-10	0	55/85	0								53
RTV024	O ₁	A	0	10	0	0	-10	0	55/85	0								59
RTV025	O ₁	A	0	-10	-10	-10	-10	0	55/85	0					100		88	60
RTV026	O ₁	A	0	-5	-20	-20	-5	0	55/85	0								61
RTV027	O ₁	A	0	-20	-20	-20	-20	0	55/85	0					98		91	62
RTV028	O ₁	A	0	-10	-40	-40	-10	0	55/85	0								63
RTV029	O ₁	A	0	-40	-40	-40	-40	0	55/85	0					93		92	64
RTV030	O ₁	A	0	0	-40	-40	0	0	55/85	0								65
RTV031	O ₁	A	0	0	-40	-40	-20	0	55/85	0								66
RTV032	O ₁	A	0	-20	0	0	-20	0	55/85	0								70
RTV033	O ₁	A	0	0	0	0	-20	0	55/85	0								68
RTV034	O ₁	A	0	0	-20	-20	0	0	55/85	0								69
RTV035	O ₁	A	0	0	10	-10	-20	0	55/85	0								71
RTV036	O ₁	21	B	0	10	-10	-20	0	55/85	0								72

1

7

13

19

25

31

37

43

49

55

61

67

73

76

α OR β

SCHEDULES

$O_1 = B_{26} C_9 E_{43} F_8 M_{16} N_{28} R_5 V_8 W_{116}$

$O_2 = B_{26} C_9 E_{43} F_8 R_5 V_8 W_{116}$

$O_3 = B_{26} C_9 E_{43} F_8 M_7 N_{28} R_5 V_8 W_{116}$

$O_4 = O_1 + \text{Tufts}$

IC-AR 11

IC-AR 12

IC-AR 13

TEST RUN NUMBERS

18

TABLE II. Concluded.

TEST: OA 115		DATA SET/RUN NUMBER COLLATION SUMMARY												DATE: 29 JULY				
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS			
		α	β	δ_{EL0}	δ_{EL1}	δ_{EL2}	δ_{EL0}	δ_{BF}	δ_{SB}^H	δ_R						2.0	2.5	4.0
RTV037	O ₁	A	O	10	-10	-10	-10	0	55/85	0								73
RTV038	O ₁	21	B	10	-10	-10	-10	0	55/85	0								74
RTV039	O ₁	A	O	0	-10	-10	0	0	55/85	0								75
RTV040	O ₁	A	O	0	10	10	0	0	55/85	0								76
RTV041	O ₁	A	O	0	-20	-20	-10	0	55/85	0								77
RTV042	O ₅	A	O	-20	-20	-20	-20	0	55/85	0								78
RTV043	O ₅	21	B	-20	-20	-20	-20	0	55/85	0								79
RTV044	O ₁ + Sealed Elevon HL	A	O	-20	-20	-20	-20	0	55	0					99			
RTV045	O ₁	A	O	0	0	0	0	0	55	0								15
RTV046	O ₁	21	B	0	0	0	0	0	55	0								16
RTV047	O ₁	A	O	10	0	0	-10	0	55	0							90	
RTV048	O ₁	A	O	0	0	0	0	0	55	0							81	
RTV049	O ₁	A	O	0	0	0	0	0	85	0						5		
RTV050	O ₁	A	O	0	0	0	0	0	85	-10						104		
RTV051	O ₃	A	O	0	0	0	0	0	55	-10						96		

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B₂₆

GENERAL DESCRIPTION : Configuration 140A/B Orbiter Fuselage

NOTE: B₂₆ is identical to B₂₄ except underside of fuselage has been
refaired to accept W₁₁₆.

MODEL SCALE: 0.015

MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER : VL70-000143B, -000200, 000205, -006089, -000145,
-000140A, 000140B

DIMENSIONS :

FULL SCALE

MODEL SCALE

*Length (OML: Fwd Sta. X ₀ =235)-In.	<u>1293.3</u>	<u>19.400</u>
*Length (IML: Fwd Sta. X ₀ =238)-In.	<u>1290.3</u>	<u>19.354</u>
* Max Width (@ X = 1528.3) - In.	<u>264.0</u>	<u>3.960</u>
Max Depth (@ X ₀ = 1464) - In.	<u>250.0</u>	<u>3.750</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>340.88</u>	<u>0.077</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : CANOPY - C₉

GENERAL DESCRIPTION : Configuration 3A, Canopy used with Fuselage

B₂₆

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER VL70-000143A, -000143B, -000140A

DIMENSIONS :	FULL SCALE	MODEL SCALE
* Length ($X_0 = 434.643$ to 578)	<u>143.357</u>	<u>2.150</u>
Max Width (@ $X_0 = 513.127$)	<u>152.412</u>	<u>2.286</u>
Max Depth (@ $X_0 = 485.0$)	<u>25.000</u>	<u>0.375</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: SLOTTED ELEVON (6-INCH GAP) - E₄₃

GENERAL DESCRIPTION: Configuration 140A/B Orbiter elevon.

NOTE: F₄₃ is a slotted version of E₂₆. Data are for one side.

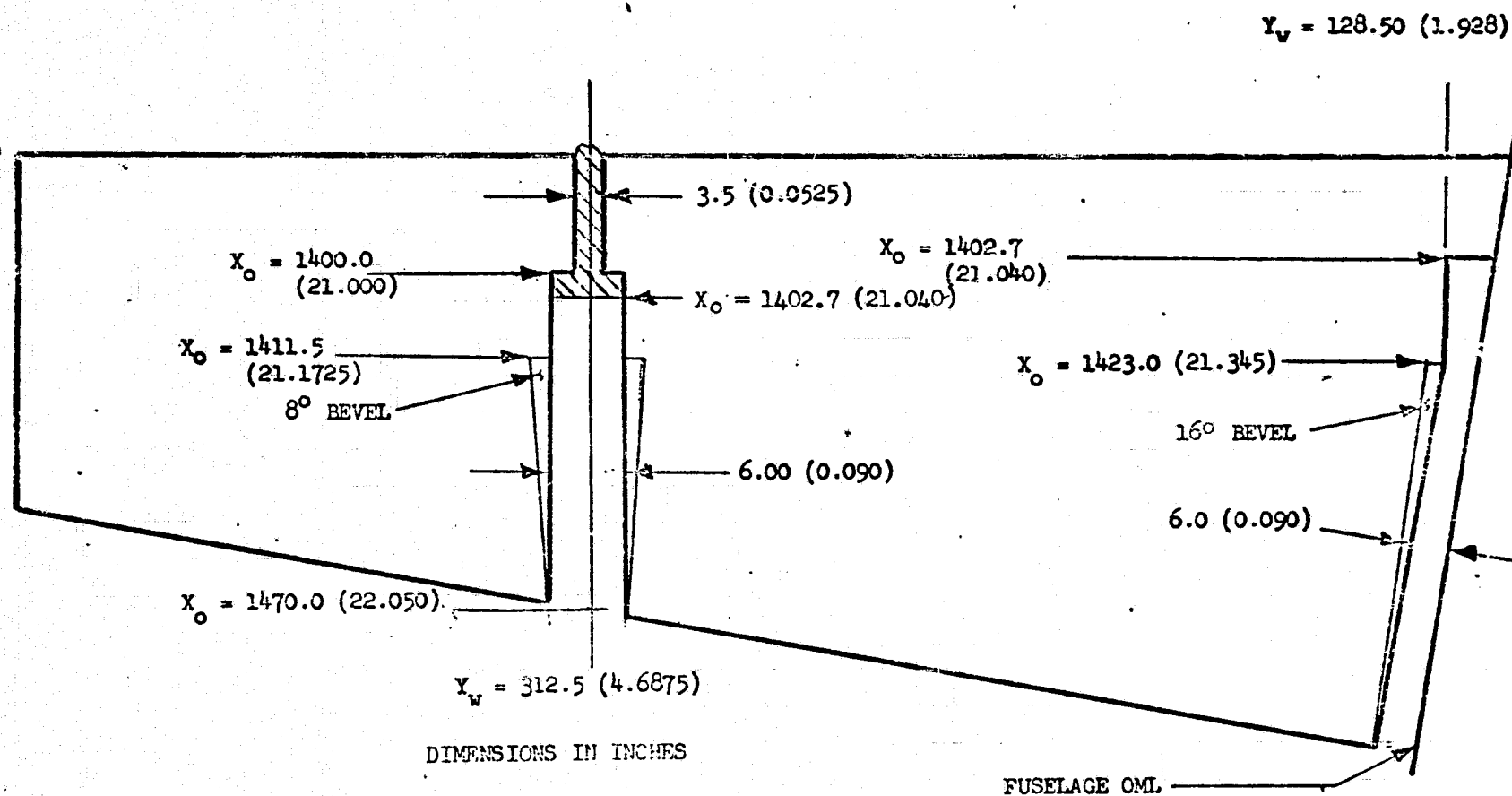
MODEL SCALE: 0.015

Model Drawing: SS=A00148

DRAWING NUMBER: VL70-000200, VL70-006089, VL70-006092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>210.0</u>	<u>0.0473</u>
Span (equivalent) - In.	<u>349.2</u>	<u>5.238</u>
Inb'd equivalent chord In.	<u>118.004</u>	<u>1.770</u>
Outb'd equivalent chord In.	<u>55.192</u>	<u>0.828</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Product of Area and \bar{c})-Ft ³	<u>1587.25</u>	<u>0.00536</u>
Mean Aerodynamic Chord (\bar{c}), in.	<u>90.7</u>	<u>1.3605</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.



Slotted Elevon - E_{43} (6-inch Gap)

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY FLAP - Fg

GENERAL DESCRIPTION : Configuration 140A/B Orbiter Body Flap.

Hingeline located at $X_o = 1528.3$, $Z_o = 284.3$

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER : VL70-000140A, VL70-000145

DIMENSIONS :

FULL SCALE

MODEL SCALE

Length ($X_o=1520$ TO $X_o=1613$) In.	<u>93.000</u>	<u>1.395</u>
Max Width (In.)	<u>262.00</u>	<u>3.930</u>
Max Depth ($X_o = 1520$) - In.	<u>23.000</u>	<u>0.345</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft^2	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u>150.525</u>	<u>0.0339</u>
Wetted	<u></u>	<u></u>
Base	<u>41.84722</u>	<u>0.00941</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: O/S Pod (M16)

GENERAL DESCRIPTION: Configuration 140C Orbiter O/S-Pod

Model Scale = 0.015

Model Drawing No. SS-A00147

DRAWING NUMBER

VL70-000140C

VL70-008410

DIMENSION:

FULL SCALE

MODEL SCALE

Length (O/S Fwd Sta $X_0=1311.0$)-In.

258.5

3.878

Max Width (@ $X_0 = 1511$)-In.

136.8

2.052

Max Depth (@ $X_0 = 1511$)-In.

74.7

1.121

Fineness Ratio

2.484

2.484

Area - FT^2

Max Cross-Sectional

58.864

0.0132

Planform

Wetted

Base

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: O/S Pod (M₇)

GENERAL DESCRIPTION: Configuration 140 A/B Orbiter OMS-Pod

Model Scale = 0.015,

Model Drawing No. SS-A00147

DRAWING NUMBER

VL70-000140A

VL70-000145

DIMENSION:

FULL SCALE

MODEL SCALE

Length (O/S Fwd Sta $X_0=1233.0$) - IN.

327.000

4.905

Max Width (@ $X_0=1450.0$) - IN.

94.5

1.418

Max Depth (@ $X_0=1493.0$) - IN.

109.000

1.635

Fineness Ratio

Area

Max Cross-Sectional

Planform

Wetted

Base

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: MPS NOZZLES - N24GENERAL DESCRIPTION: Configuration 140A/B Orbiter MPS nozzlesModel Scale: 0.015Model Drawing SS-A00147, Release 12DRAWING: VL70-005030A
VL70-000140ADIMENSIONSFull ScaleModel Scale

Length - in.

Gimbal Point to Exit Plane

157.02.355

Throat to Exit Plane

99.21.488

Diameter - in.

Exit

91.0001.410

Throat

Inlet

Area ft.²/Nozzle

Exit

45.165850.0102

Throat

Gimbal Point (station)-in.

Upper Nozzle

X

144521.675

Y

00

Z

4436.645

Lower Nozzles

X

1468.1699622.023

Y

153.000000.795

Z

342.639885.140

Null Position - deg.

Upper Nozzle

Pitch

16°16°

Yaw

0°0°

Lower Nozzles

Pitch

10°10°

Yaw

3.503.50

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS NOZZLES - N28

GENERAL DESCRIPTION: Configuration 140A/B Orbiter OMS Nozzles

MODEL SCALE: 0.015

MODEL DRAWING: SS-A00106, RELEASE 5 (Contour)

DRAWING NUMBER: VL70-000140A (Location), VL70-000145

DIMENSIONS:

FULL SCALE

MODEL SCALE

MACH NO.

Length - In.

Gimbal Point to Exit Plane

Throat to Exit Plane

Diameter - In.

Exit

Throat

Inlet

Area - ft²

Exit

Throat

Gimbal Point (Station) - In.

Left Nozzle

X₀

Y₀

Z₀

Right Nozzle

X

Y

Z

Null Position - Deg.

Left Nozzle

Pitch

Yaw

Right Nozzle

Pitch

Yaw

1518.0

- 88.0

492.0

1518.0

+ 88.0

492.0

22.770

- 1.320

7.380

22.770

+ 1.320

7.380

15°49'

12°17'

15°49'

12°17'

15°49'

12°17'

15°49'

12°17'

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R₅

GENERAL DESCRIPTION: 2A, 3, 3A and 140A/B Configurations

MODEL SCALE: 0.015

Model Drawing: SS-A00148

DRAWING NUMBER: VL70-000146A, VL70-000095, VL70-000139.

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
*Area- Ft ²	<u>100.15</u>	<u>0.0225</u>
Span (equivalent) - In.	<u>201.0</u>	<u>3.015</u>
Inb'd equivalent chord - In.	<u>91.585</u>	<u>1.3738</u>
Outb'd equivalent chord - In.	<u>50.833</u>	<u>0.7625</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
* Area Moment (Product of area & \bar{c})-Ft ³	<u>610.92</u>	<u>0.002</u>
*Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>1.098</u>

*REVISED 4/24/74

TABLE III. MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V₈

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Vertical Tail

MODEL SCALE: 0.015

MODEL DRAWING: SS-A00148, RELEASE 6

DRAWING NUMRER: VL70-000146A

DIMENSIONS: FULL SCALE MODEL SCALE

TOTAL DATA

Area (Theo) - Ft ²		
Planform	<u>413.253</u>	<u>0.093</u>
Span (Theo) - In.	<u>315.720</u>	<u>4.736</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
* Trailing Edge	<u>26.2</u>	<u>26.2</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.500</u>	<u>4.028</u>
Tip (Theo) WP	<u>108.470</u>	<u>1.627</u>
MAC	<u>199.808</u>	<u>2.997</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>21.953</u>
W.P. of .25 MAC	<u>635.522</u>	<u>9.533</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.00</u>	<u>0.030</u>
Void Area-	<u>13.17</u>	<u>0.003</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>

TABLE III. - MODEL DIMENSIONAL DATA - Concluded.
*REVISED 4/24/74

MODEL COMPONENT: WING-W₁₁₆

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to V₁₁₄ except airfoil thickness. Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.015

MODEL DRAWING: 33-100148 RELEASE 6

TEST NO.

DWG. NO. VL70 000140R, -000200

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft^2

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

*Fus. Sta. of .25 MAC

* W.P. of .25 MAC

* B.L. of .25 MAC

EXPOSED DATA

* Area (Theo) Ft^2

* Span, (Theo) In. BP108

* Aspect Ratio

Taper Ratio

Chords

* Root BL108

Tip $1.00 \frac{b}{2}$

* MAC

* Fus. Sta. of .25 MAC

* W.P. of .25 MAC

* B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)
XXXX-64

Root $\frac{b}{2}$ =

Tip $\frac{b}{2}$ =

Data for (1) of (2) Sides

Leading Edge Cuff

*Planform Area Ft^2

* Leading Edge Intersects Fus M. L. @ Sta

* Leading Edge Intersects Wing @ Sta

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

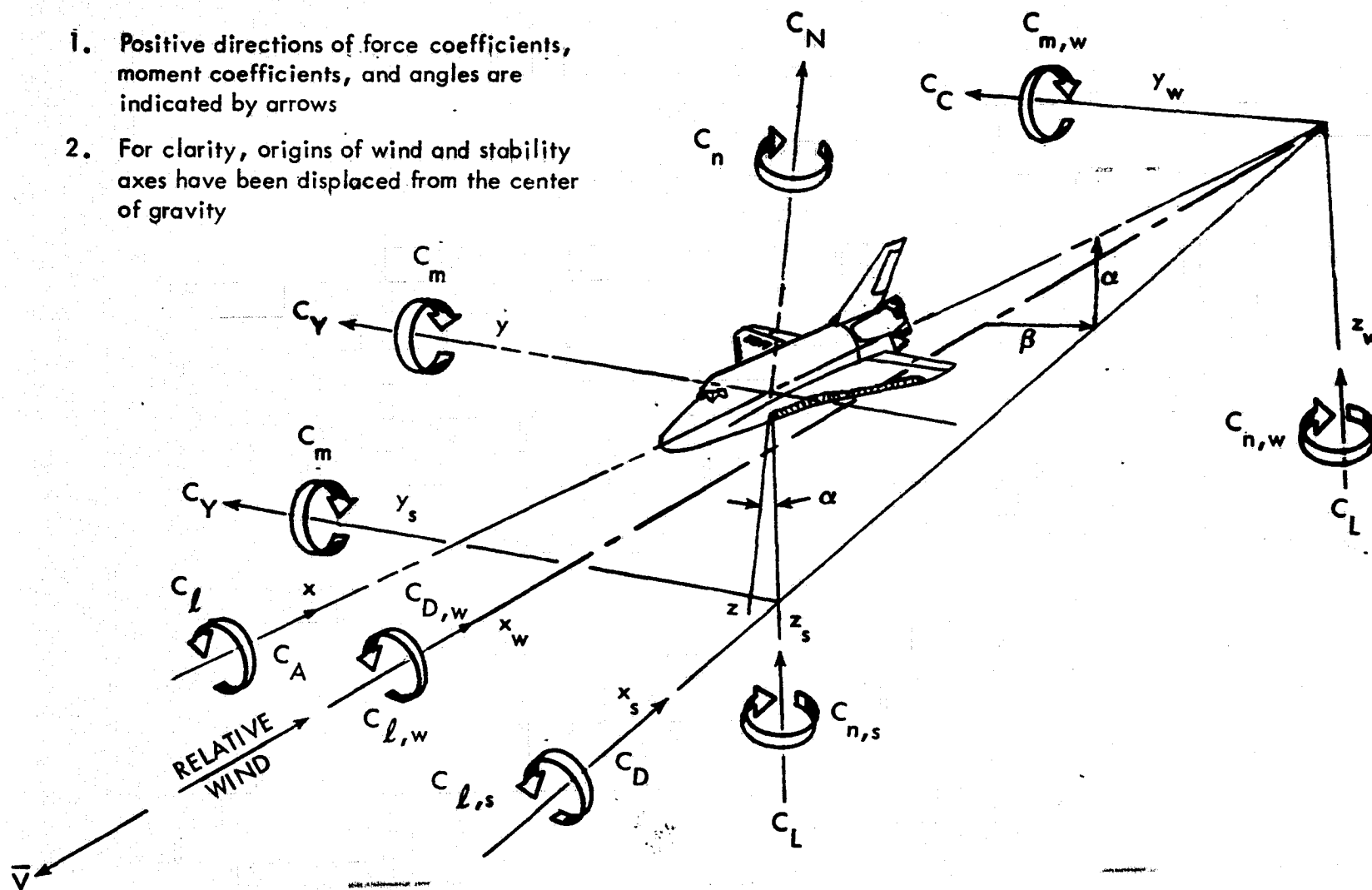
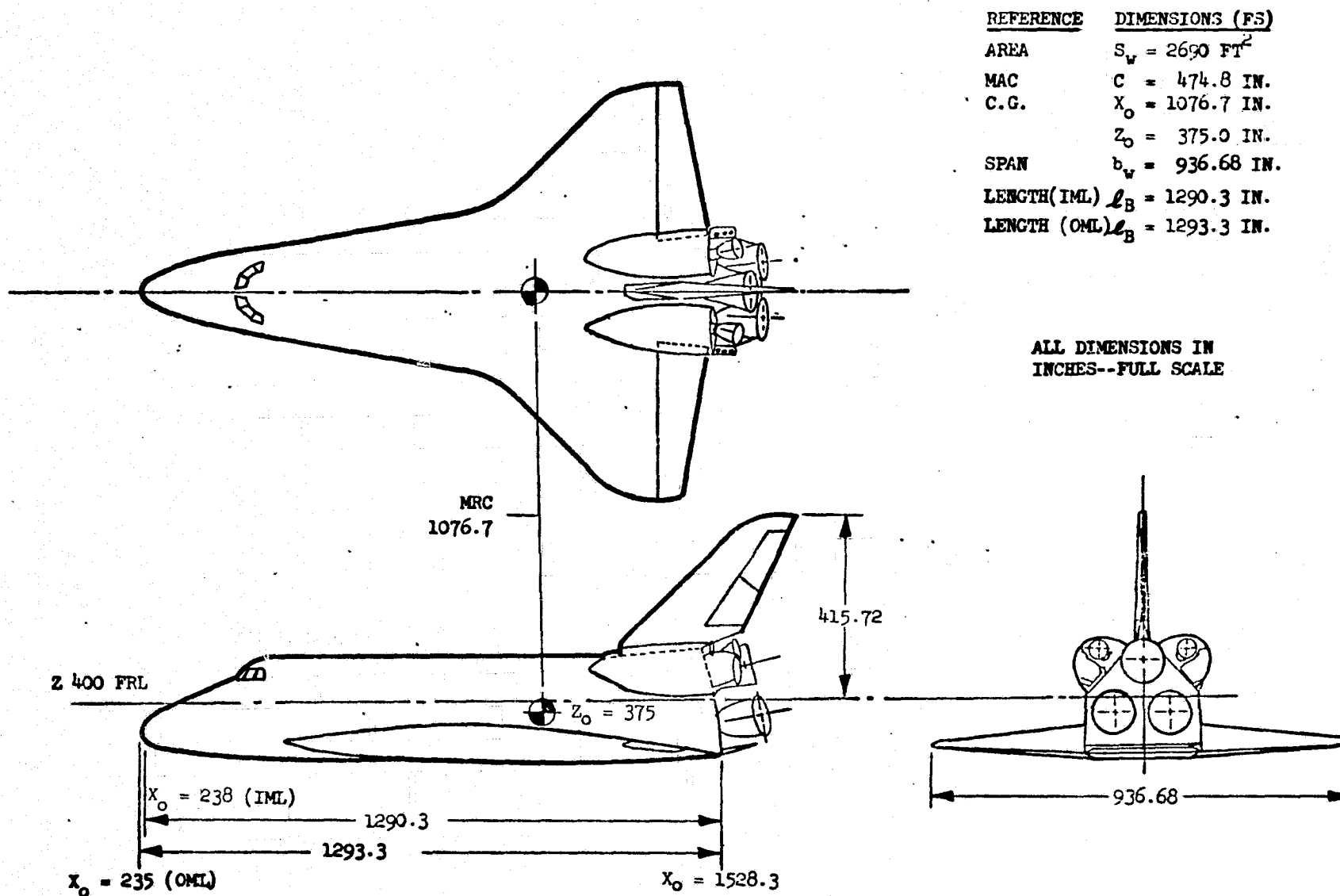
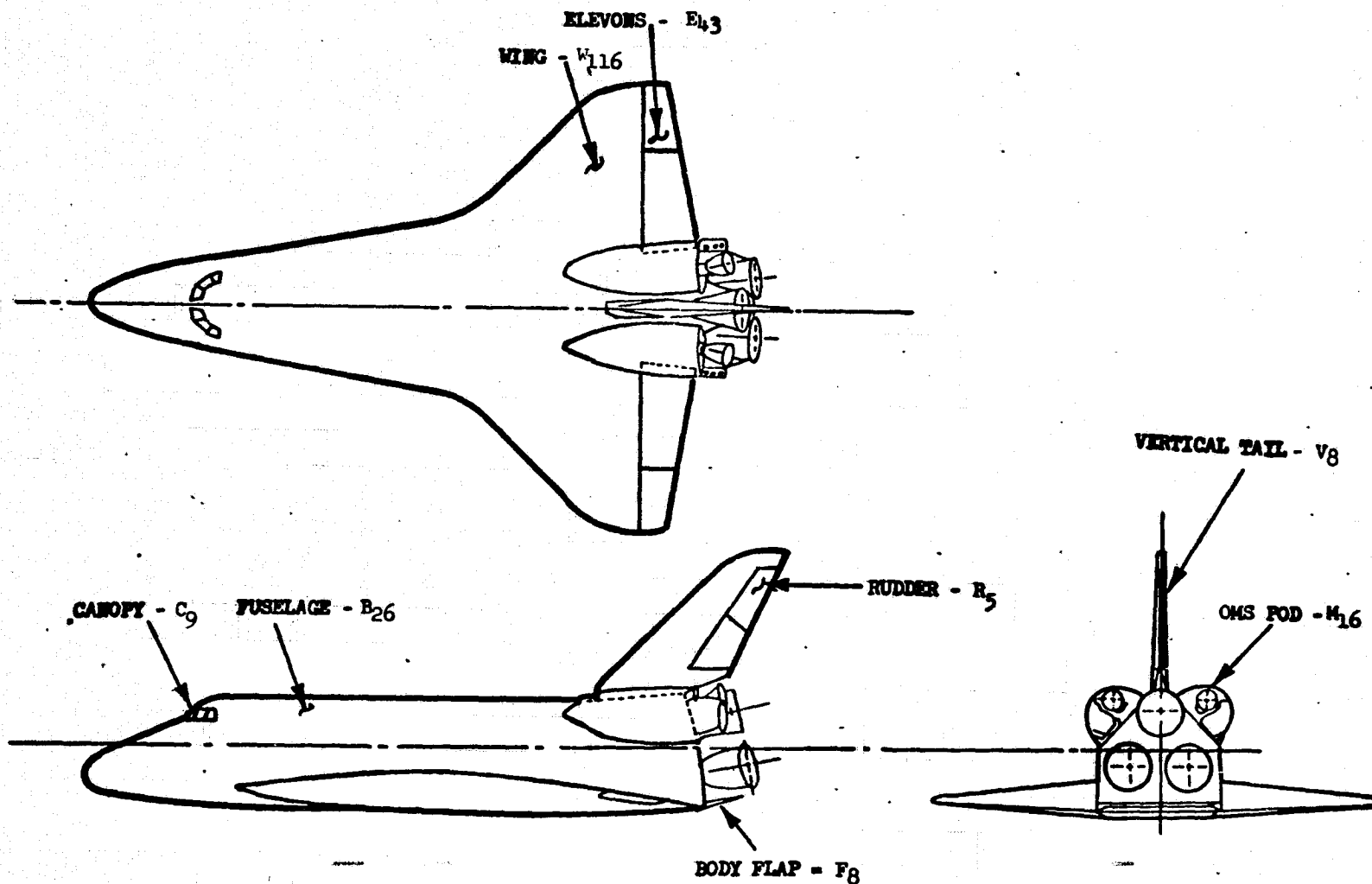


Figure 1. - Axis systems.



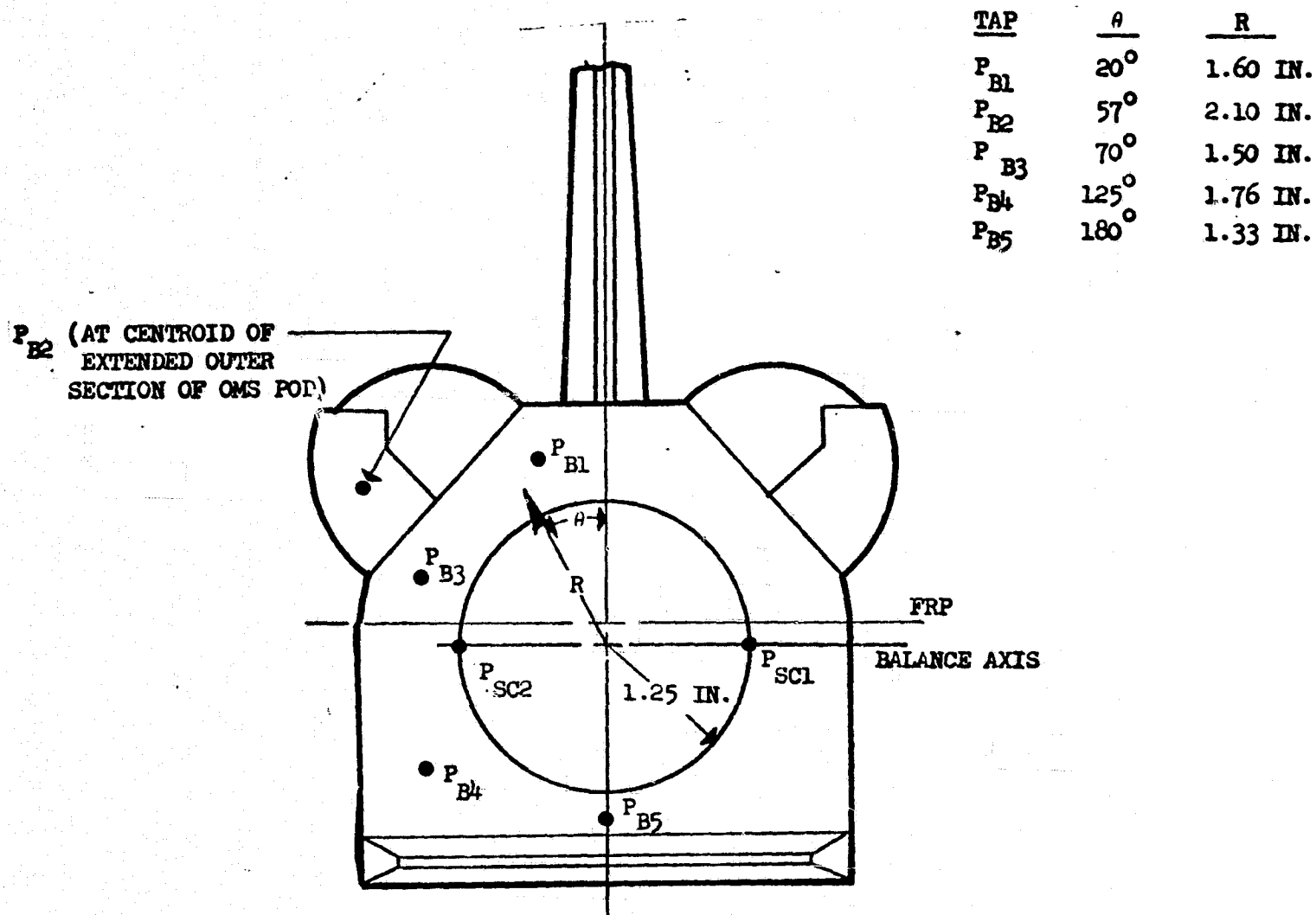
a. SSV Orbiter Configuration 140A/B

Figure 2. - Model sketches.



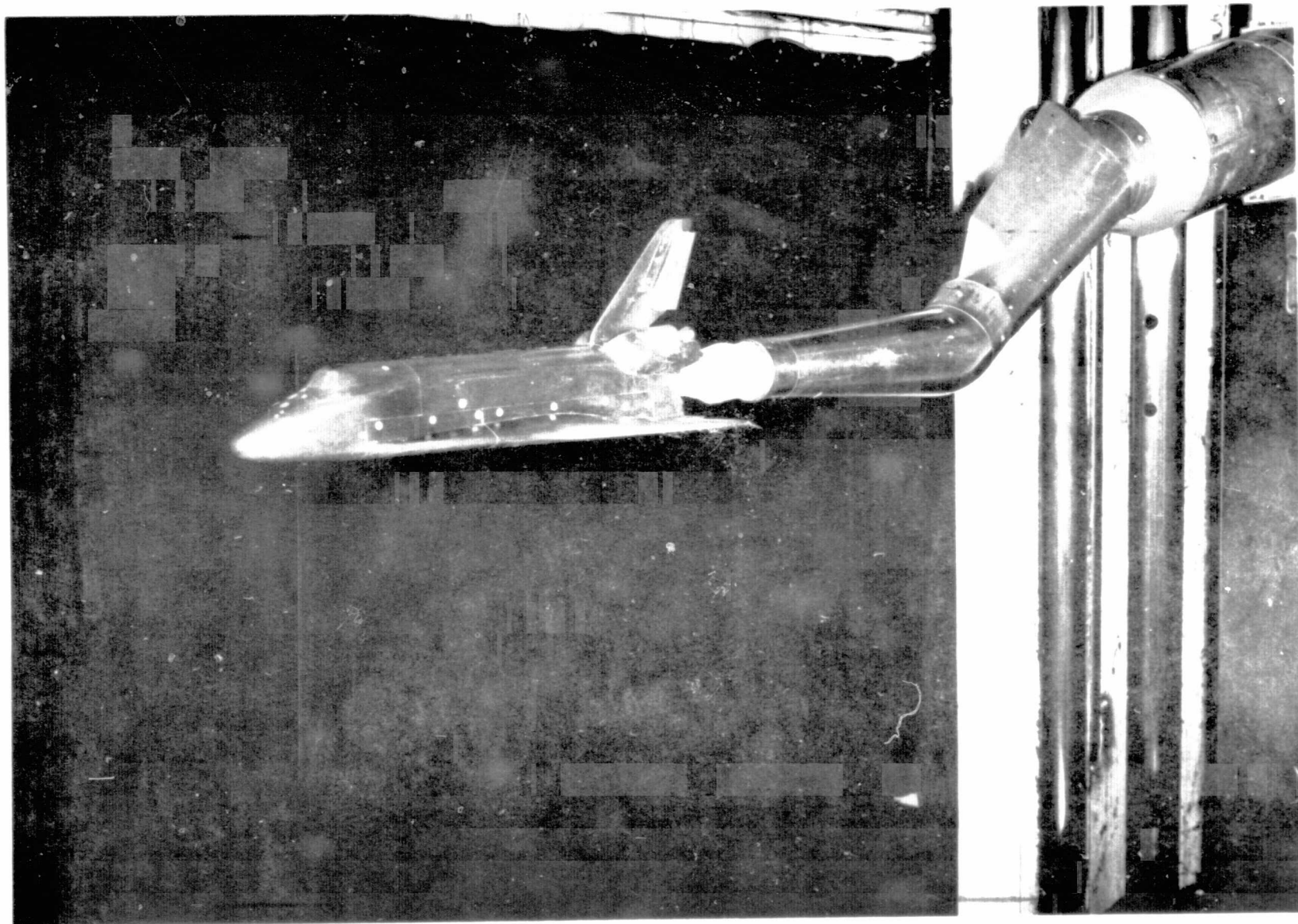
b. Configuration Diagram

Figure 2. - Continued.



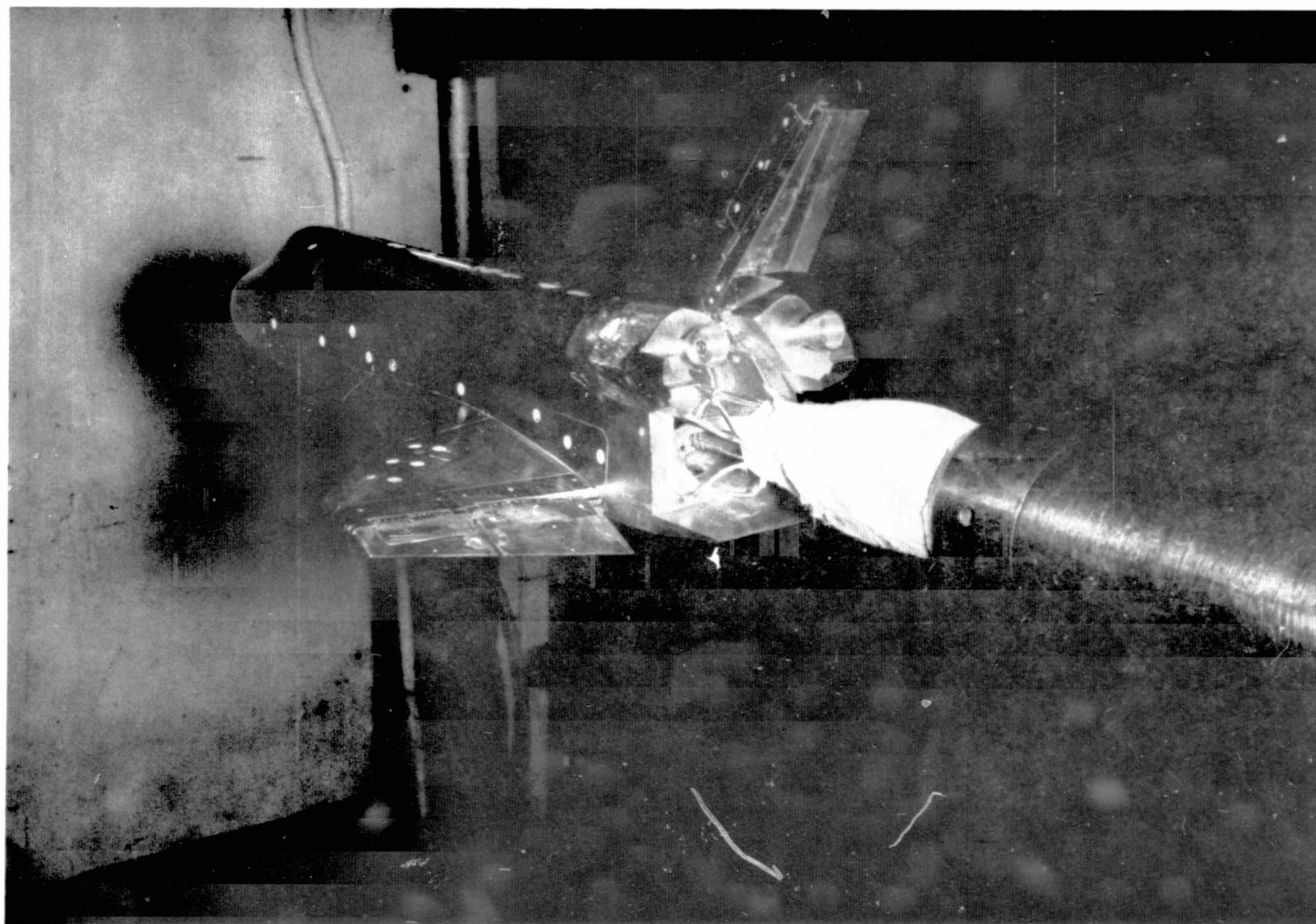
c. Base and Cavity Pressure Locations

Figure 2. - Continued.



a. Side View of Orbiter

Figure 3. - Model photographs.



b. Aft View of Orbiter Showing Base Pressure Instrumentation

Figure 3. - Concluded.

DATA FIGURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO10)	□	0A115	B26	C9	E43	F8	M7	N28	R5	V8	V116
(BTVO08)	◇	0A115	B26	C9	E43	F8			R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SO.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

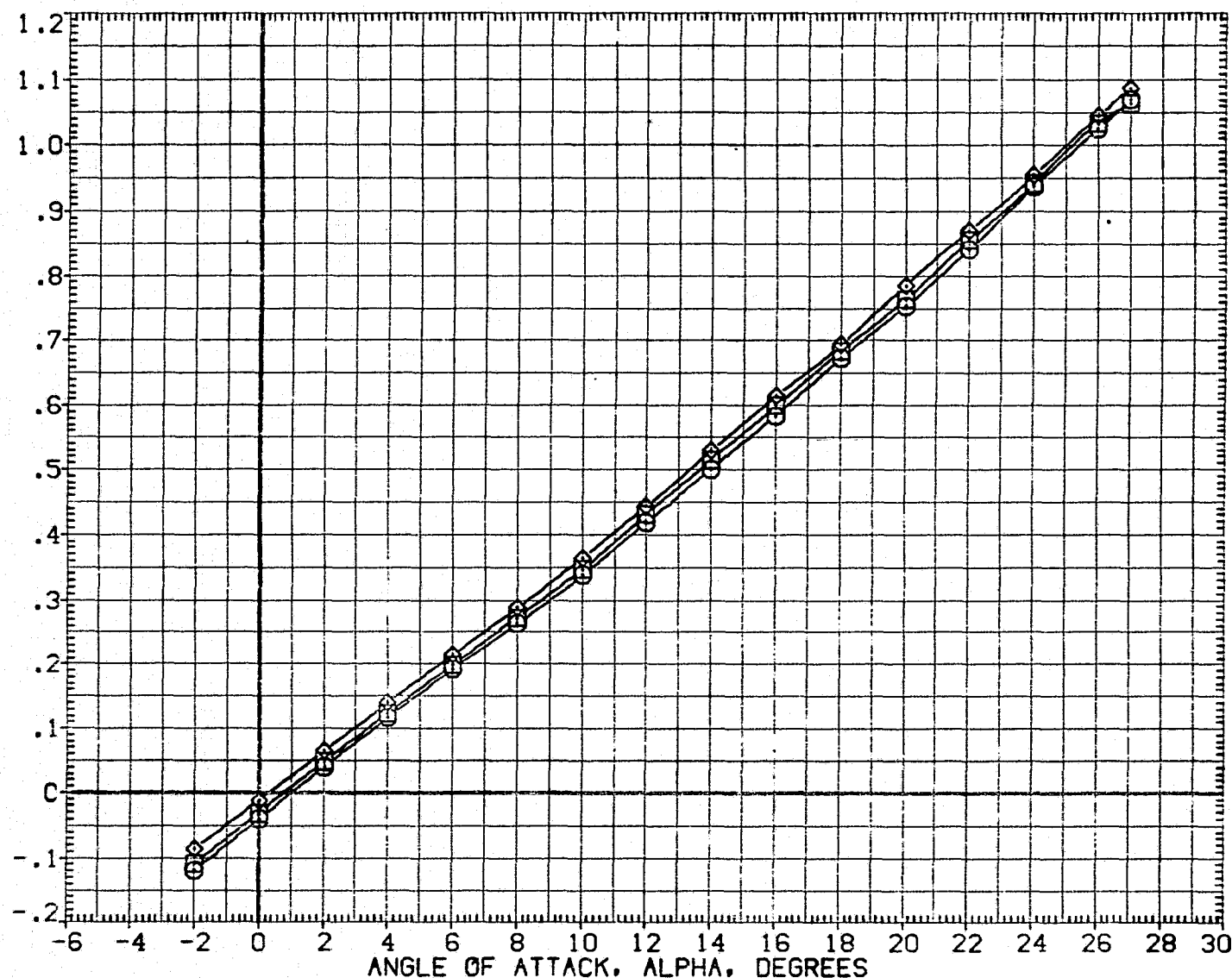


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

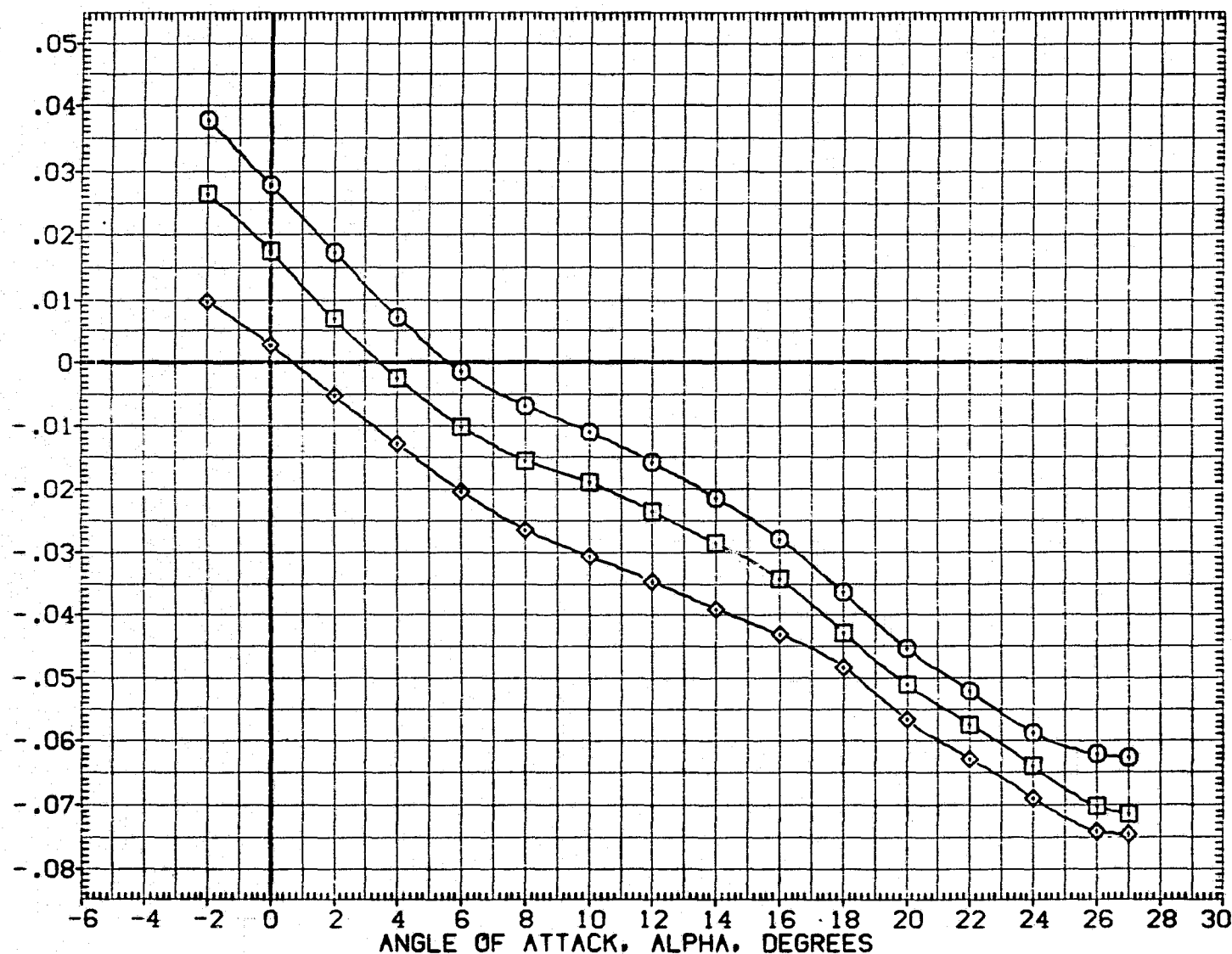


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(A) MACH = 2.00

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.), CLMAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L6	ELV-LI	ELV-RI	ELV-R6	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

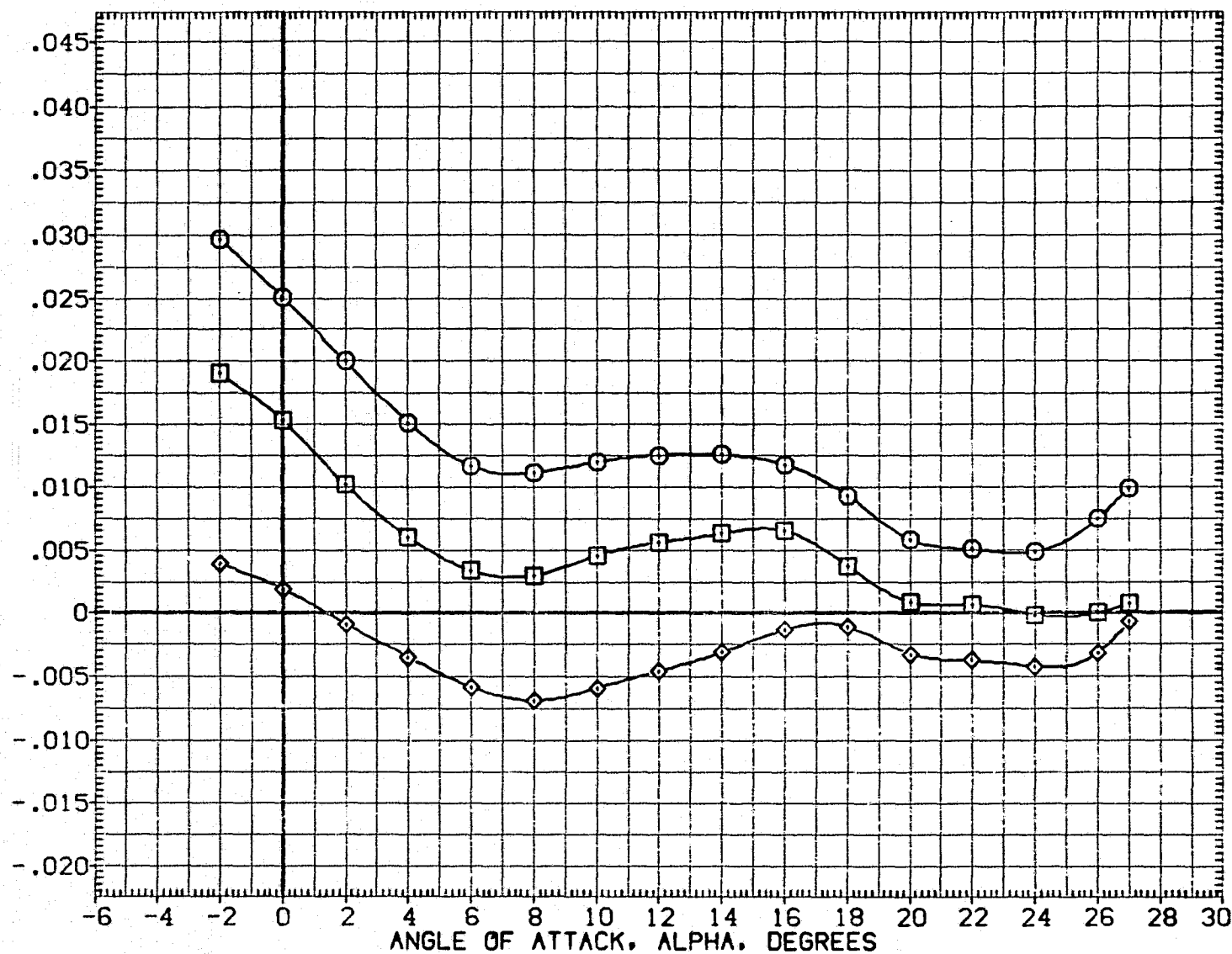


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVD05)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVD10)	□	0A115	B26	C9	E43	F8	M7	N28	R5	V8	V116
(BTVD08)	◇	0A115	B26	C9	E43	F8			R5	V8	V116

ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SG.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

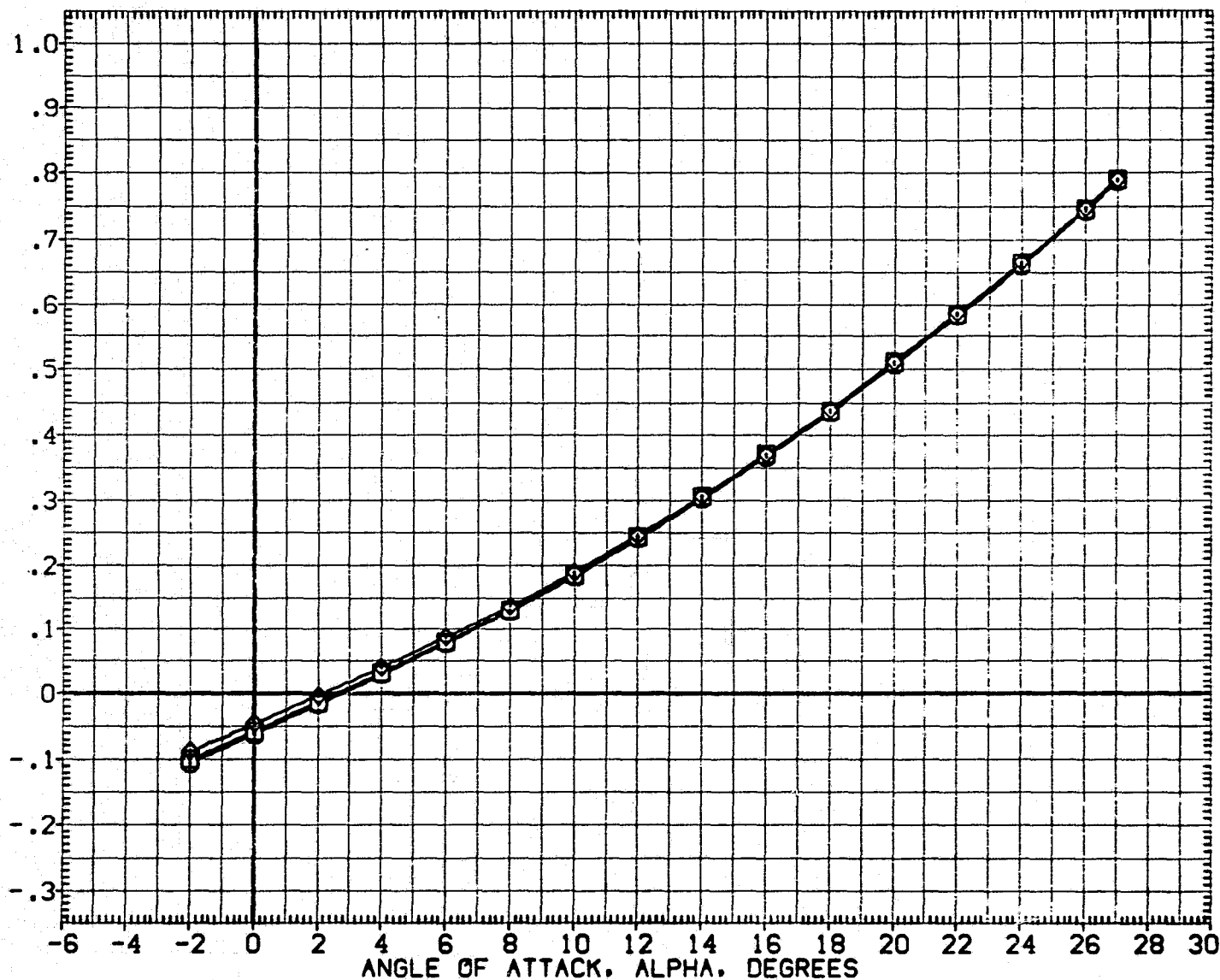


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(B)MACH = 4.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

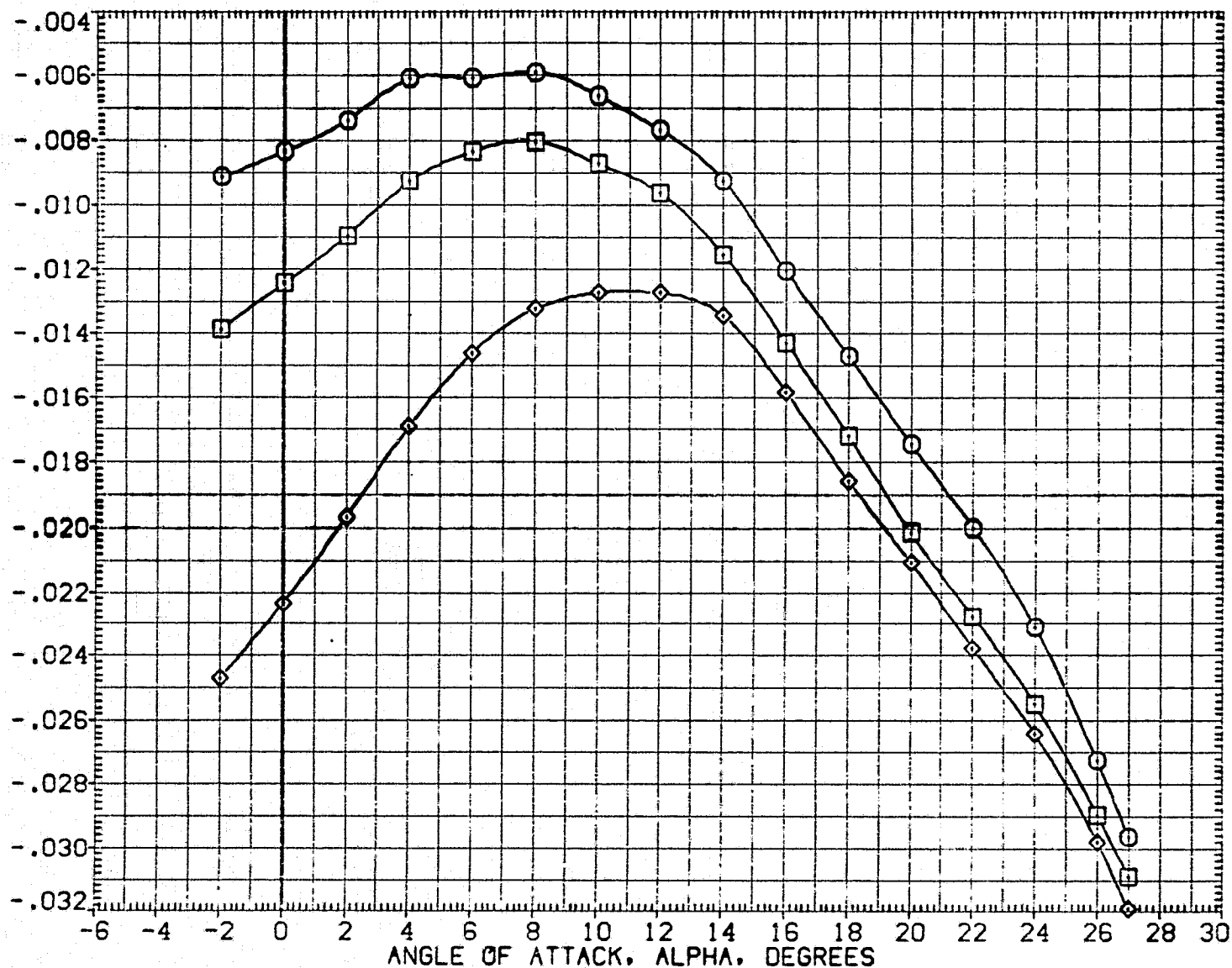


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.). CLMAFT

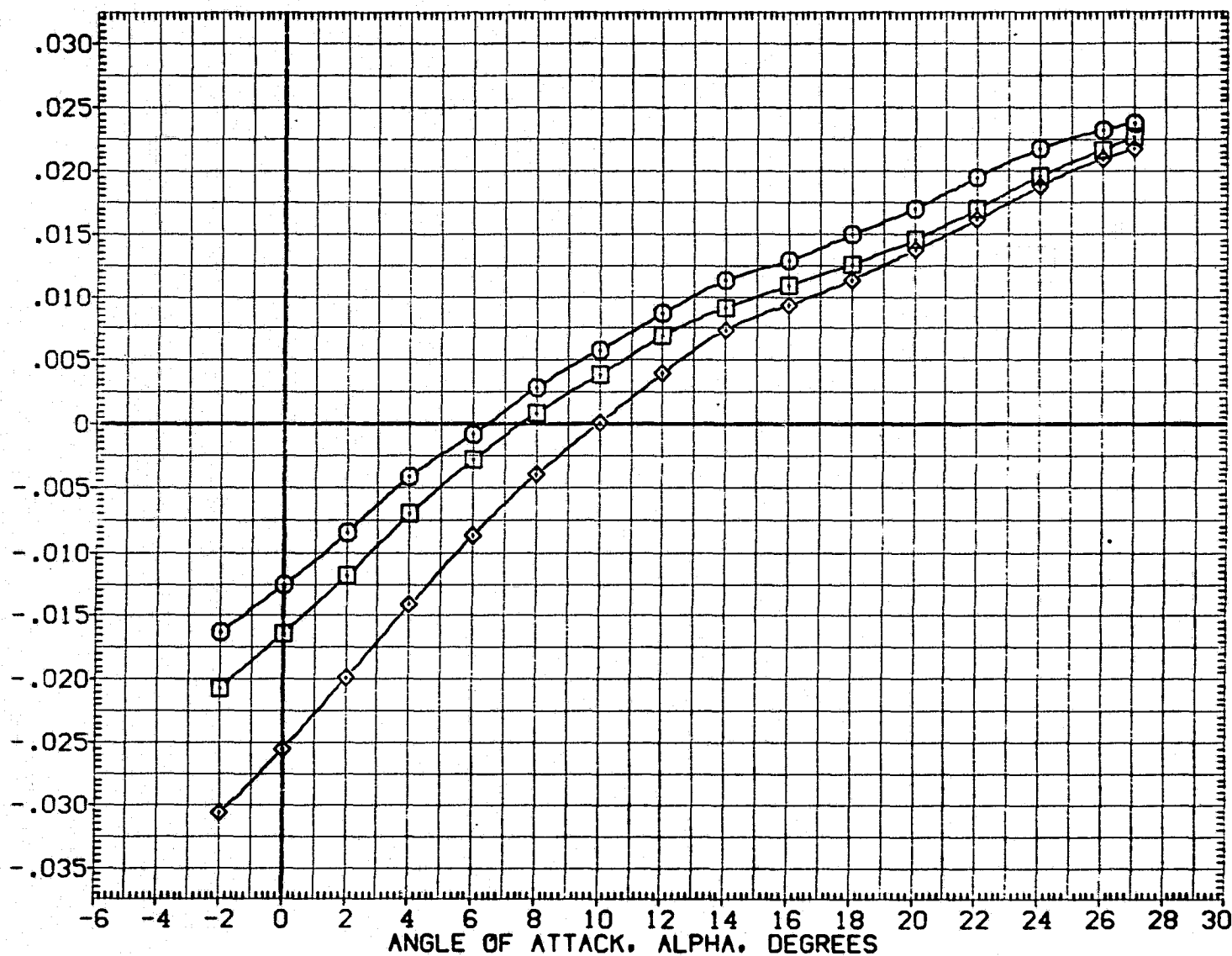


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTV010)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116
(BTV008)	0A115 B26 C9 E43 F8 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
.000	.000	.000	.000	LREF 474.8100 IN.
.000	.000	.000	.000	BREF 936.6800 IN.
				XMRF 1076.6900 IN.X0
				YMRF .0000 IN.Y0
				ZMRF 375.0000 IN.Z0
				SCALE .0150

NORMAL FORCE COEFFICIENT, CN

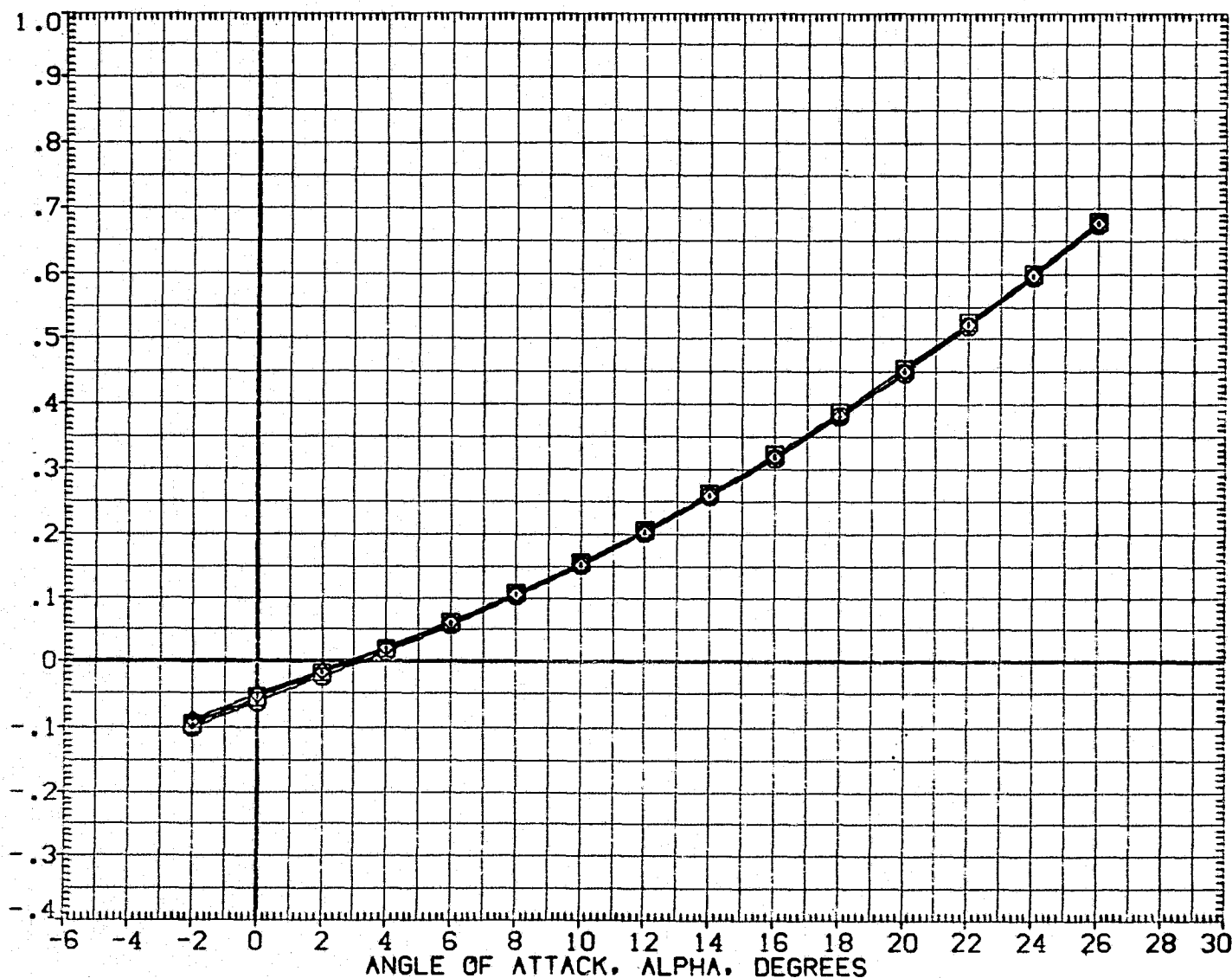


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.).CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

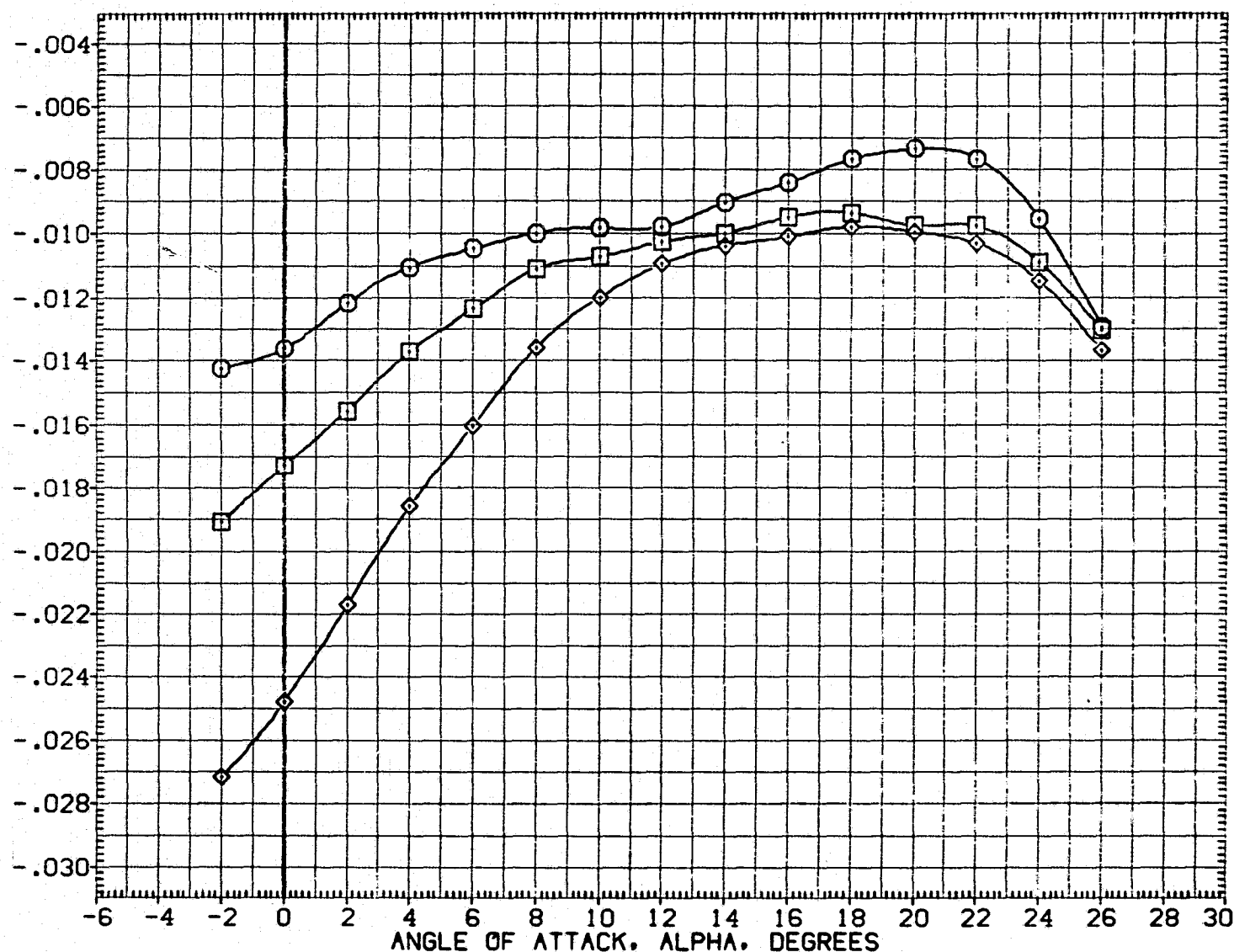


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

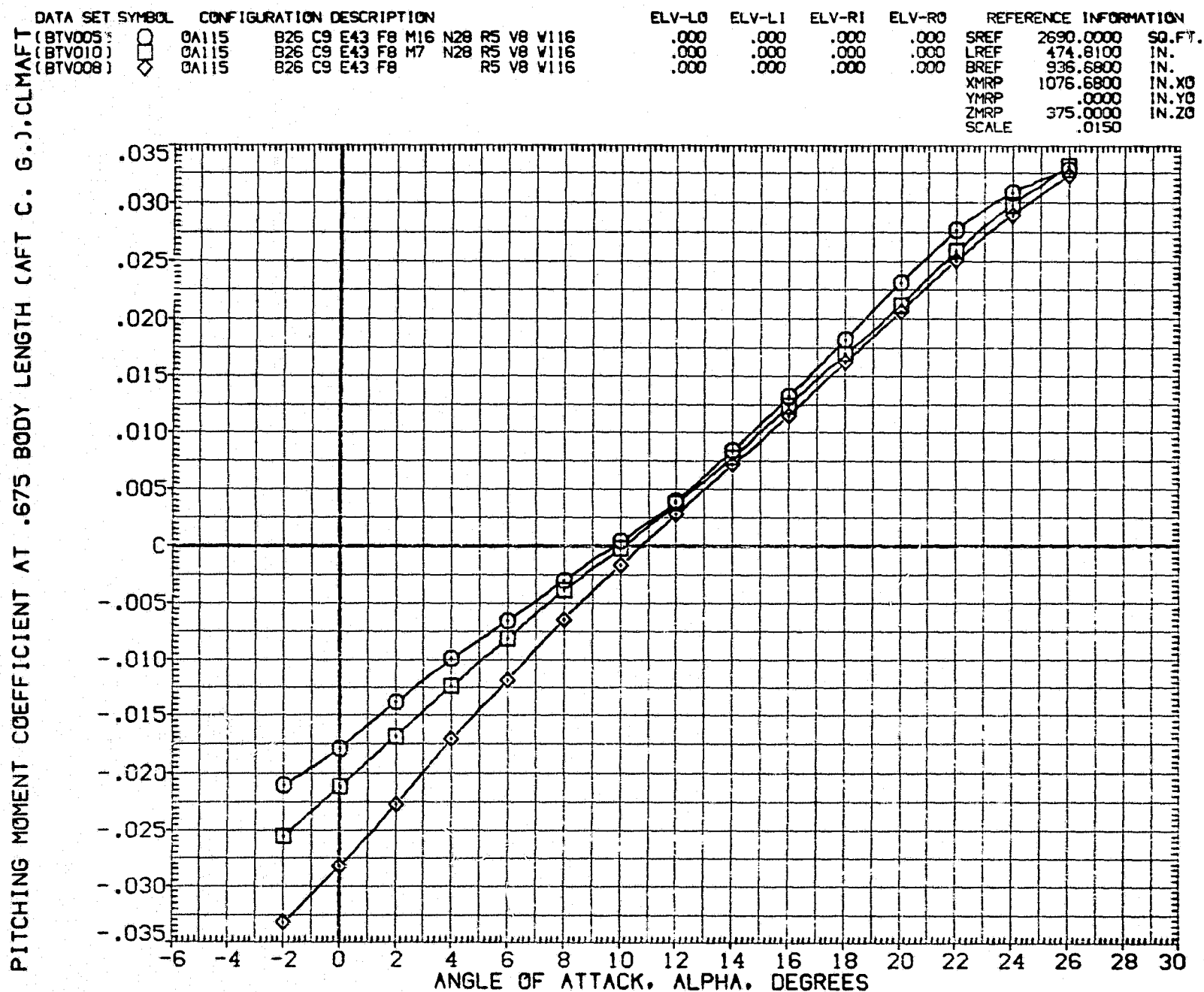


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

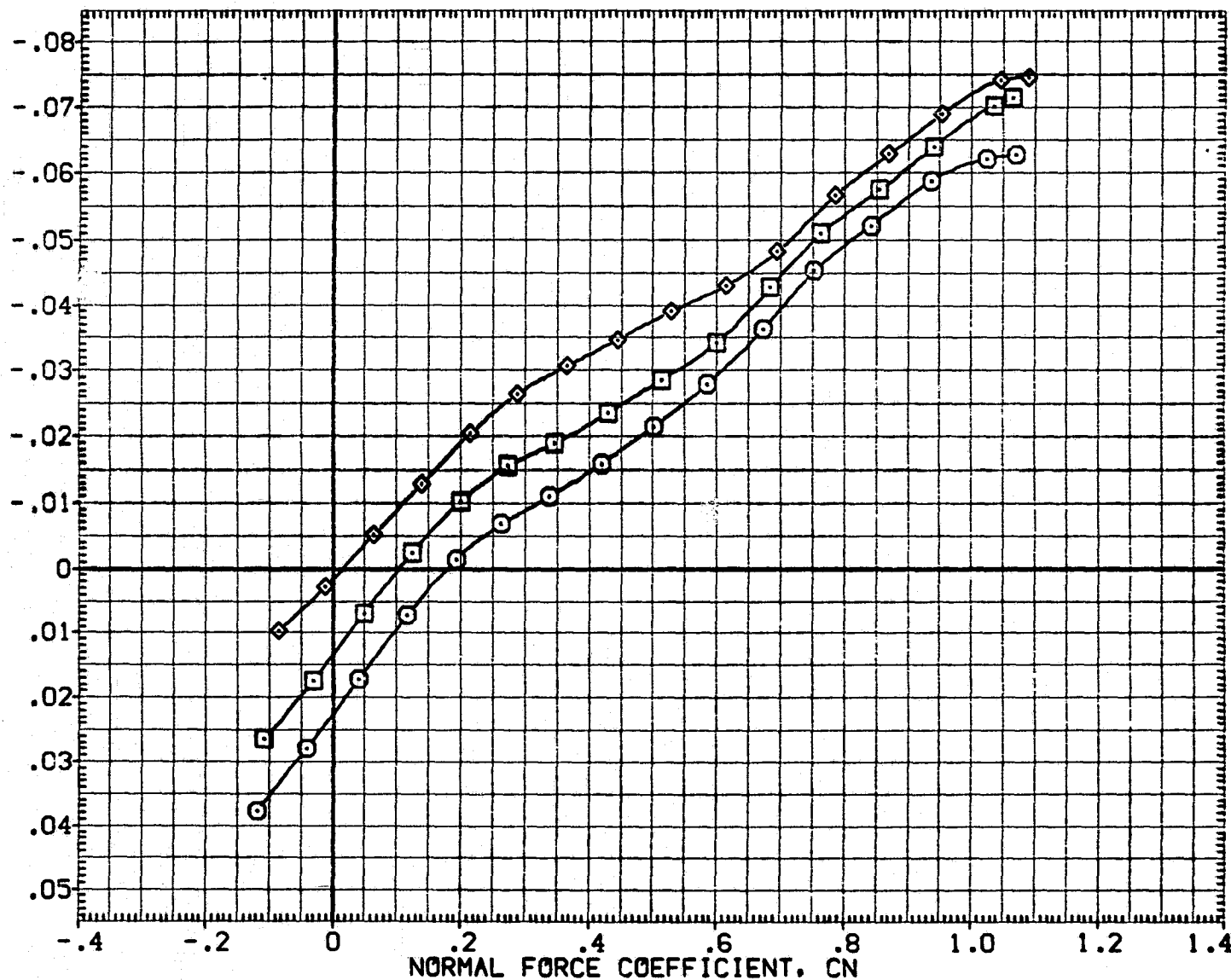


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.) CLMAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

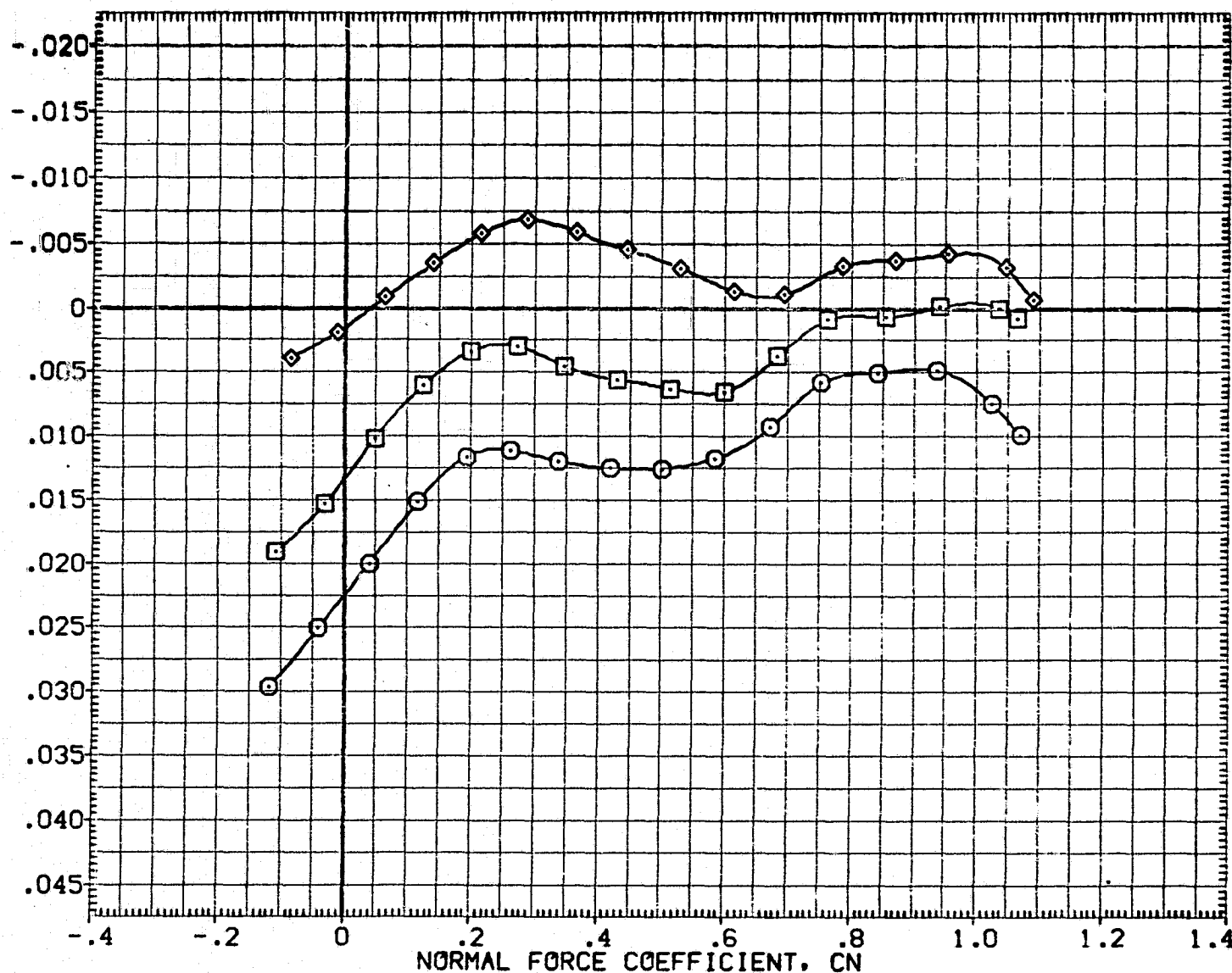


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.). CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

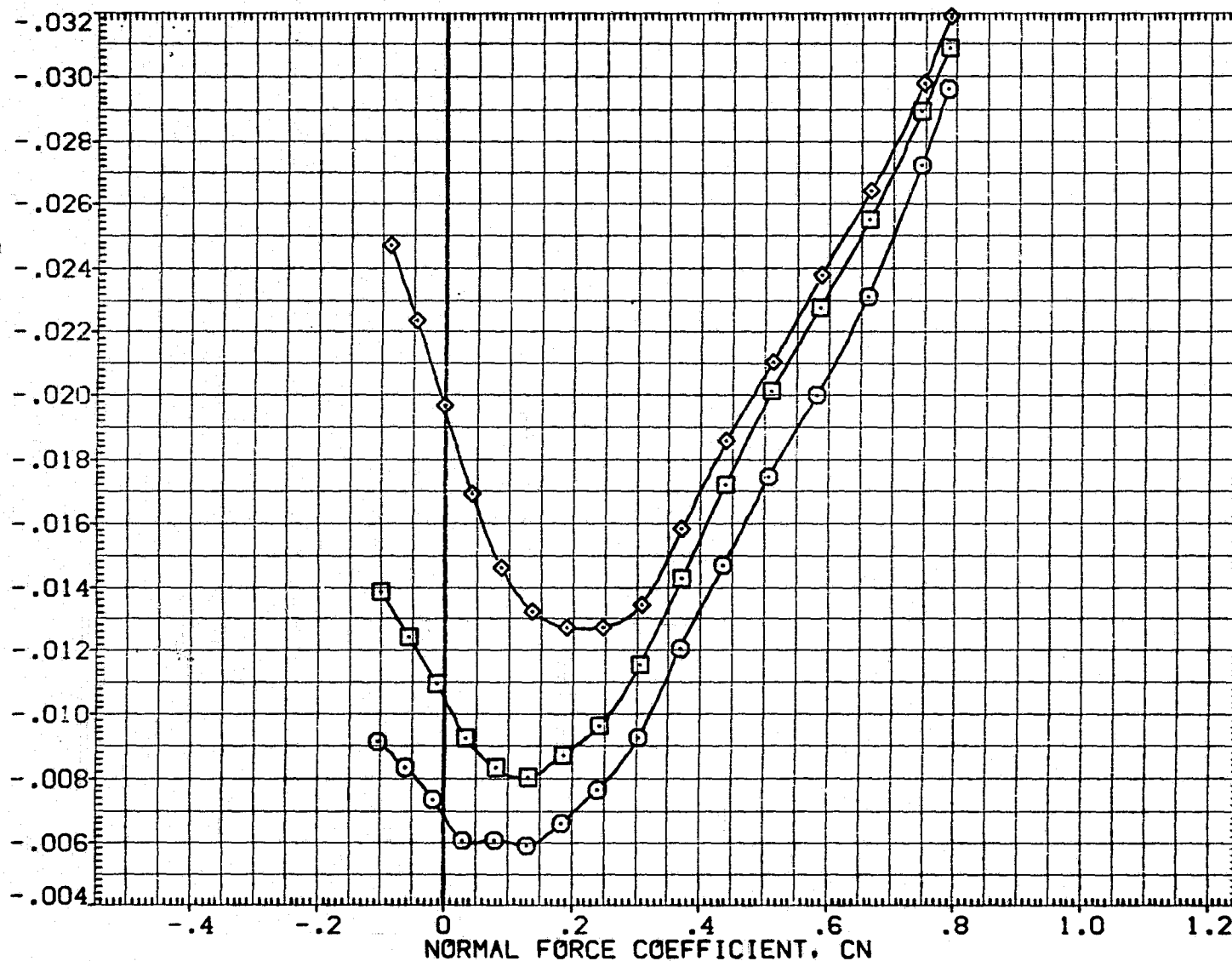


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.), CLMAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100 IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

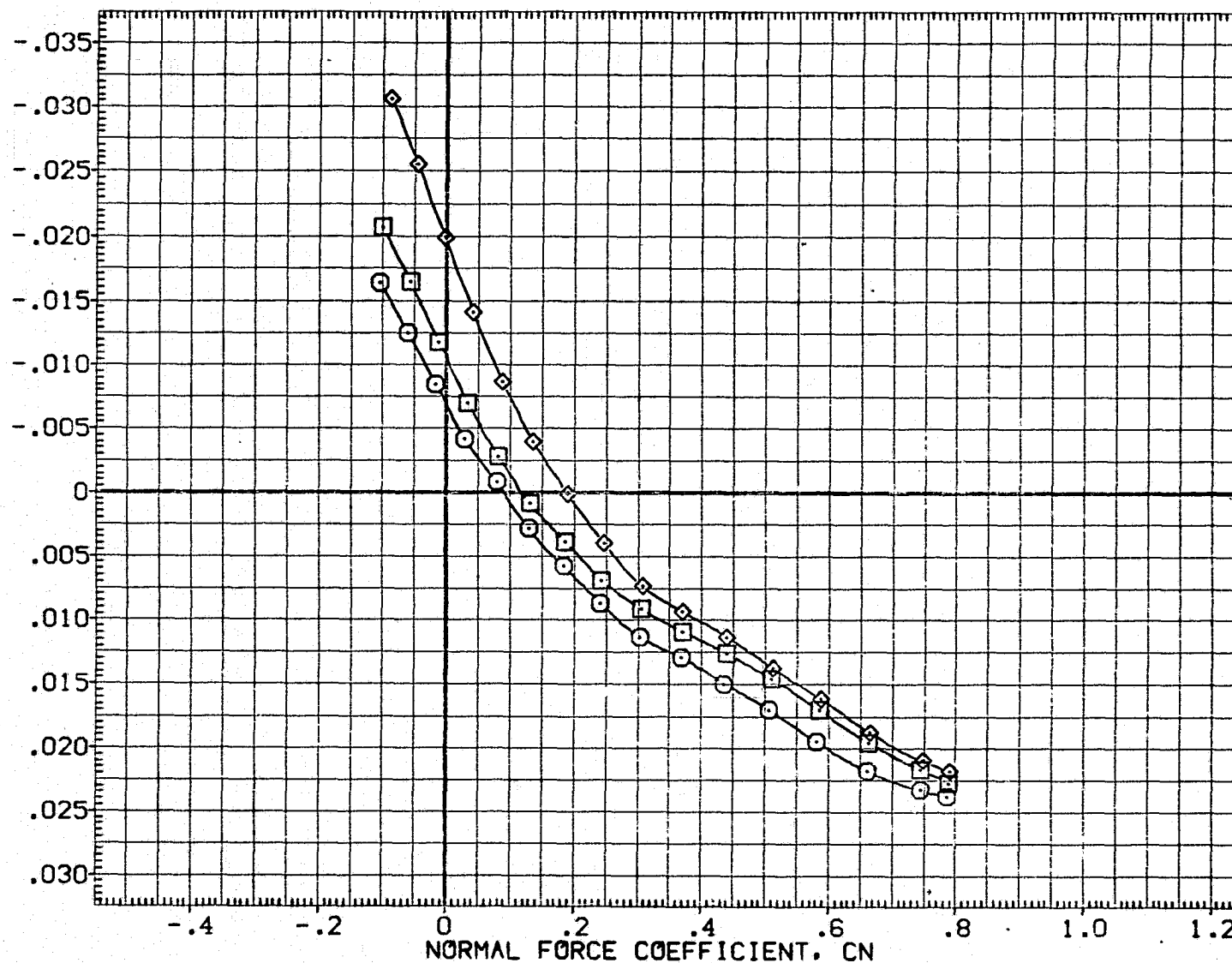


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.).CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 W116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 W116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

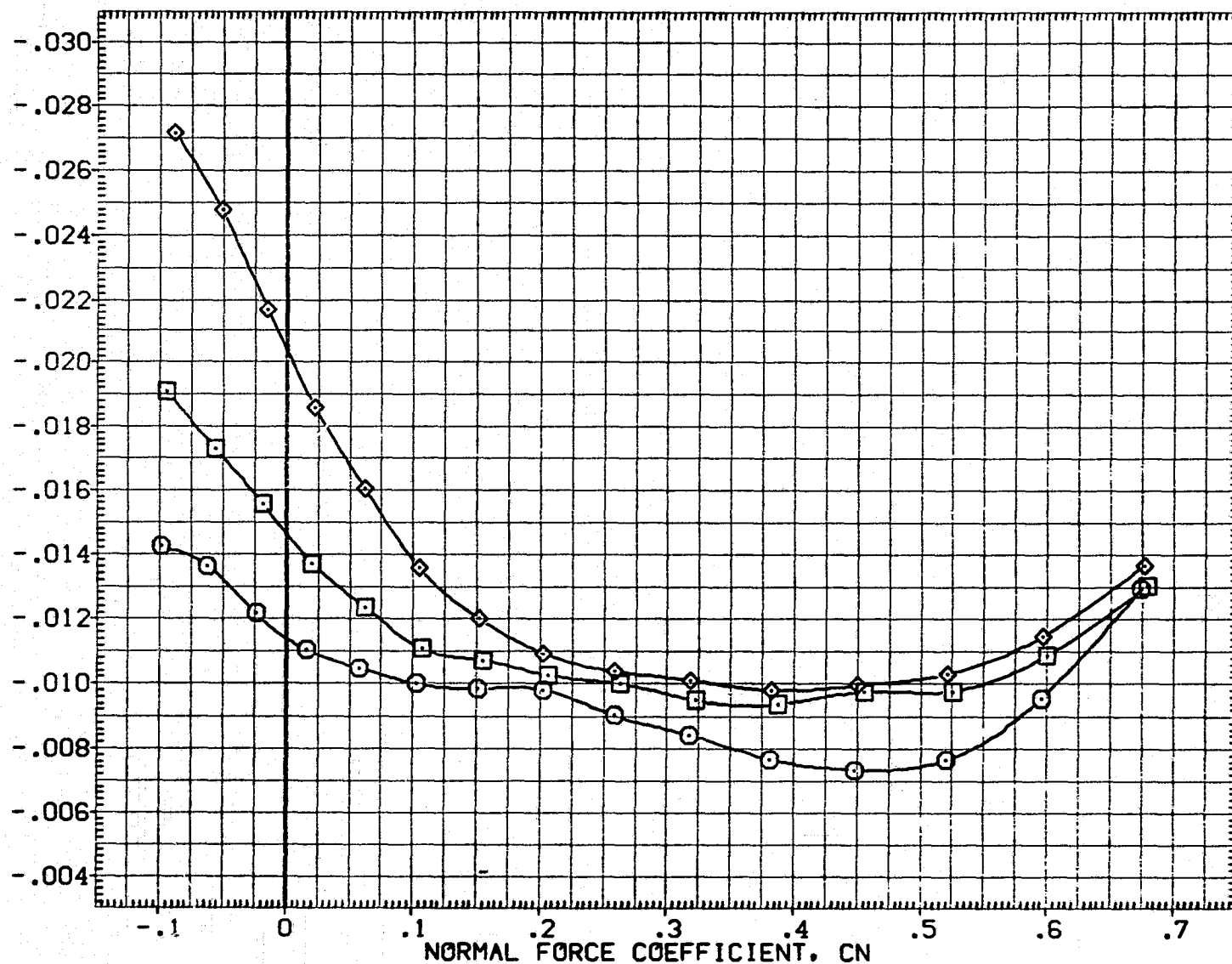
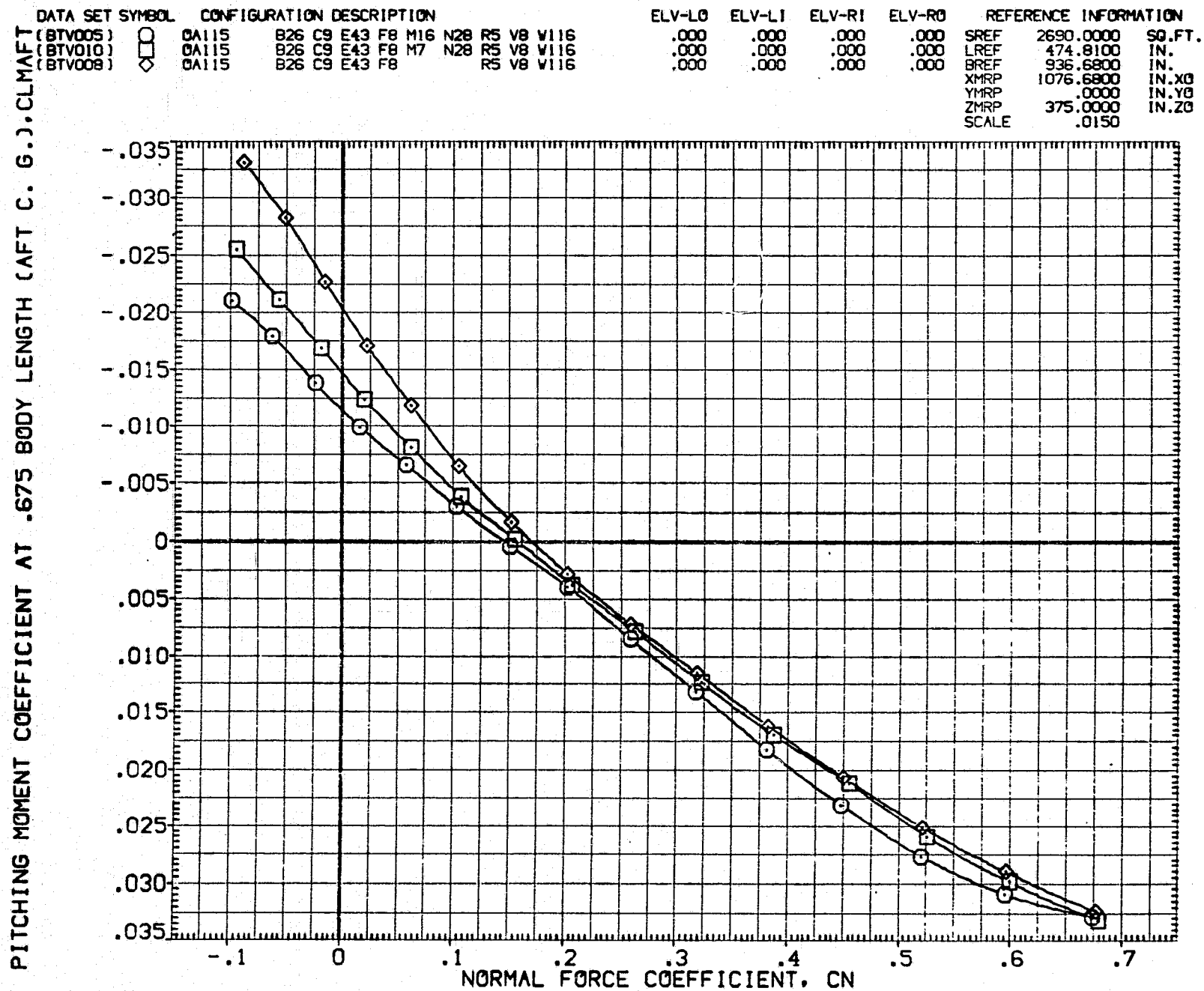


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(C)MACH = 5.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION		
(BTVO05)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO10)	GA115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	GA115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

CENTER OF PRESSURE LOCATION-AS A FRACTION OF BODY LENGTH.

XCP/L

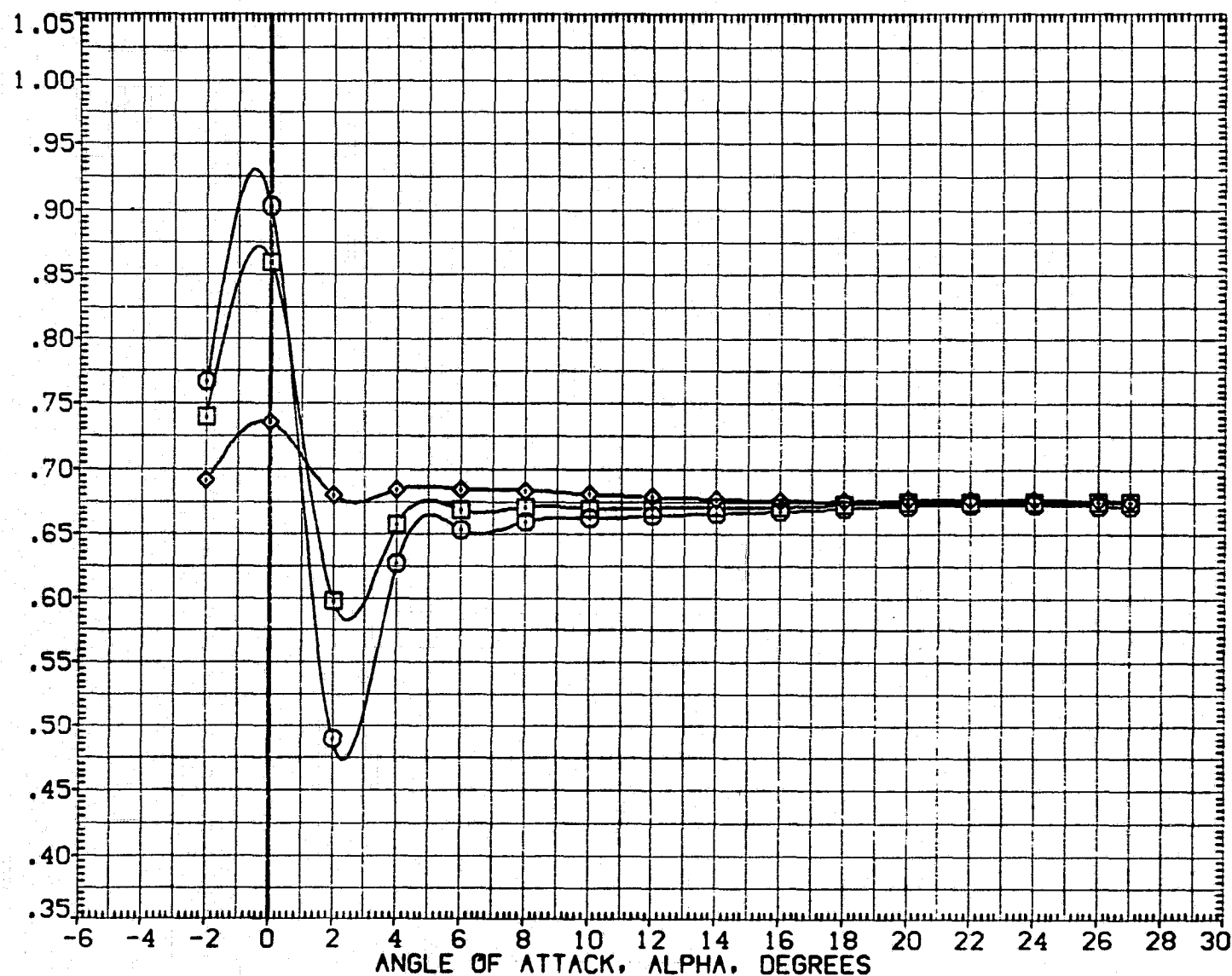


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO10)	□	0A115	B26 C9 E43 F8 M7 N28 R5 V8 V116
(BTVO08)	◇	0A115	B26 C9 E43 F8 R5 V8 V116

ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

AXIAL FORCE COEFFICIENT, CA

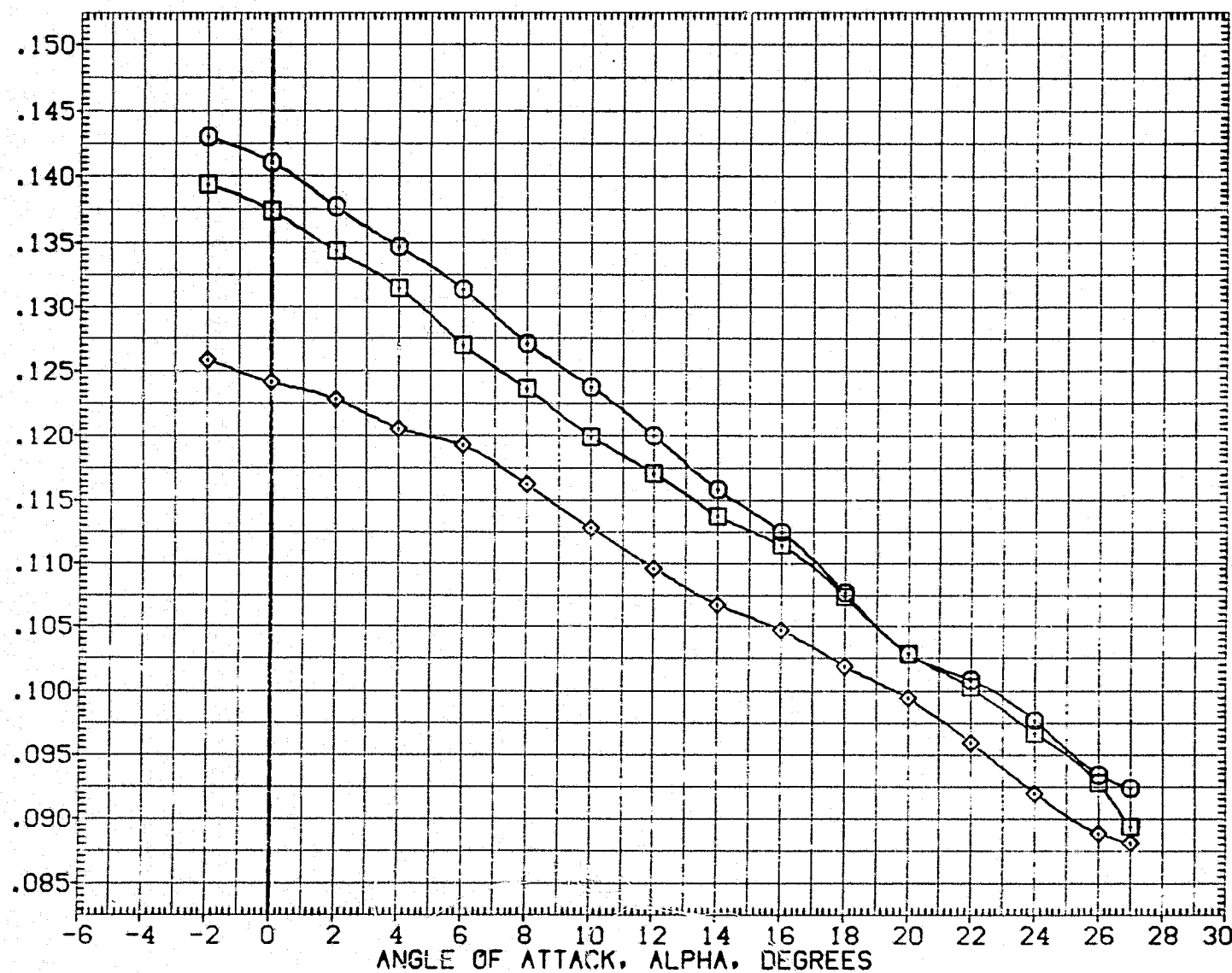


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 W116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 W116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

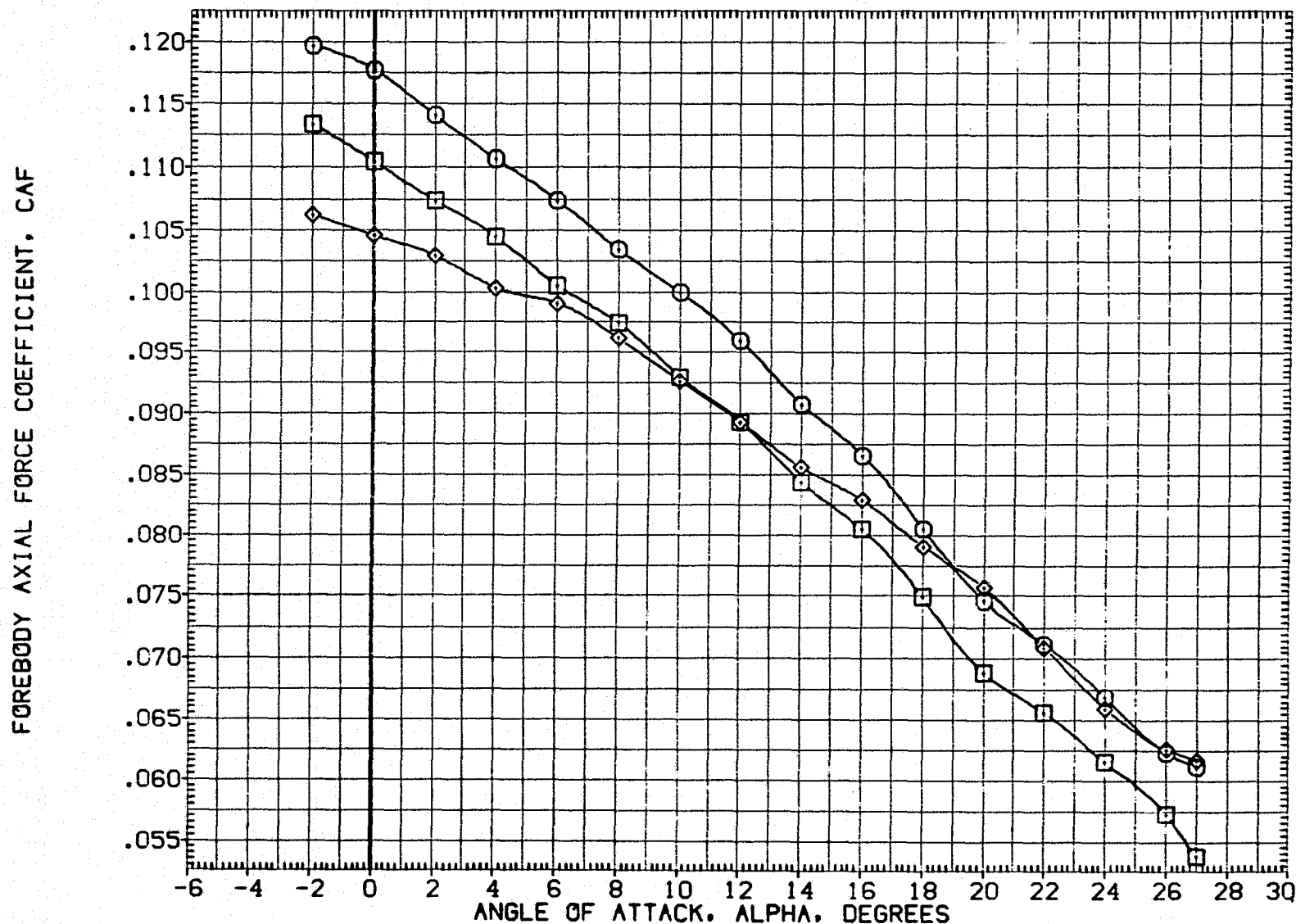


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 W116
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 W116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
.000	.000	.000	.000	LREF 474.8100 IN.
.000	.000	.000	.000	BREF 936.6800 IN.
				XMRP 1076.6800 IN.X0
				YMRP .0000 IN.Y0
				ZMRP 375.0000 IN.Z0
				SCALE .0150

BASE AXIAL FORCE COEFFICIENT, CAB

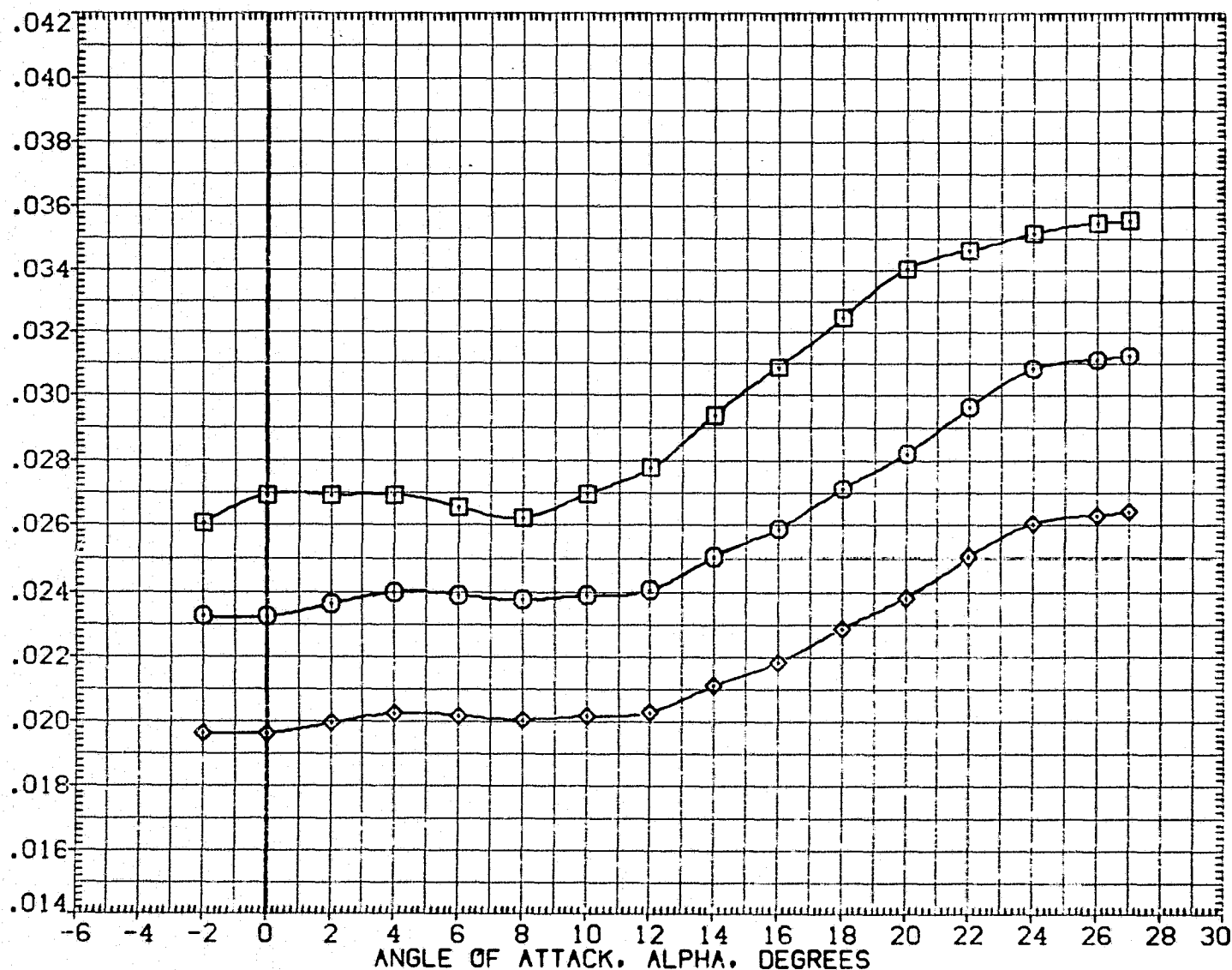


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO10)	□	0A115	B26	C9	E43	F8	M7	N28	R5	V8	V116
(BTVO08)	◇	0A115	B26	C9	E43	F8			R5	V8	V116

ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

SIDE FORCE COEFFICIENT, CY

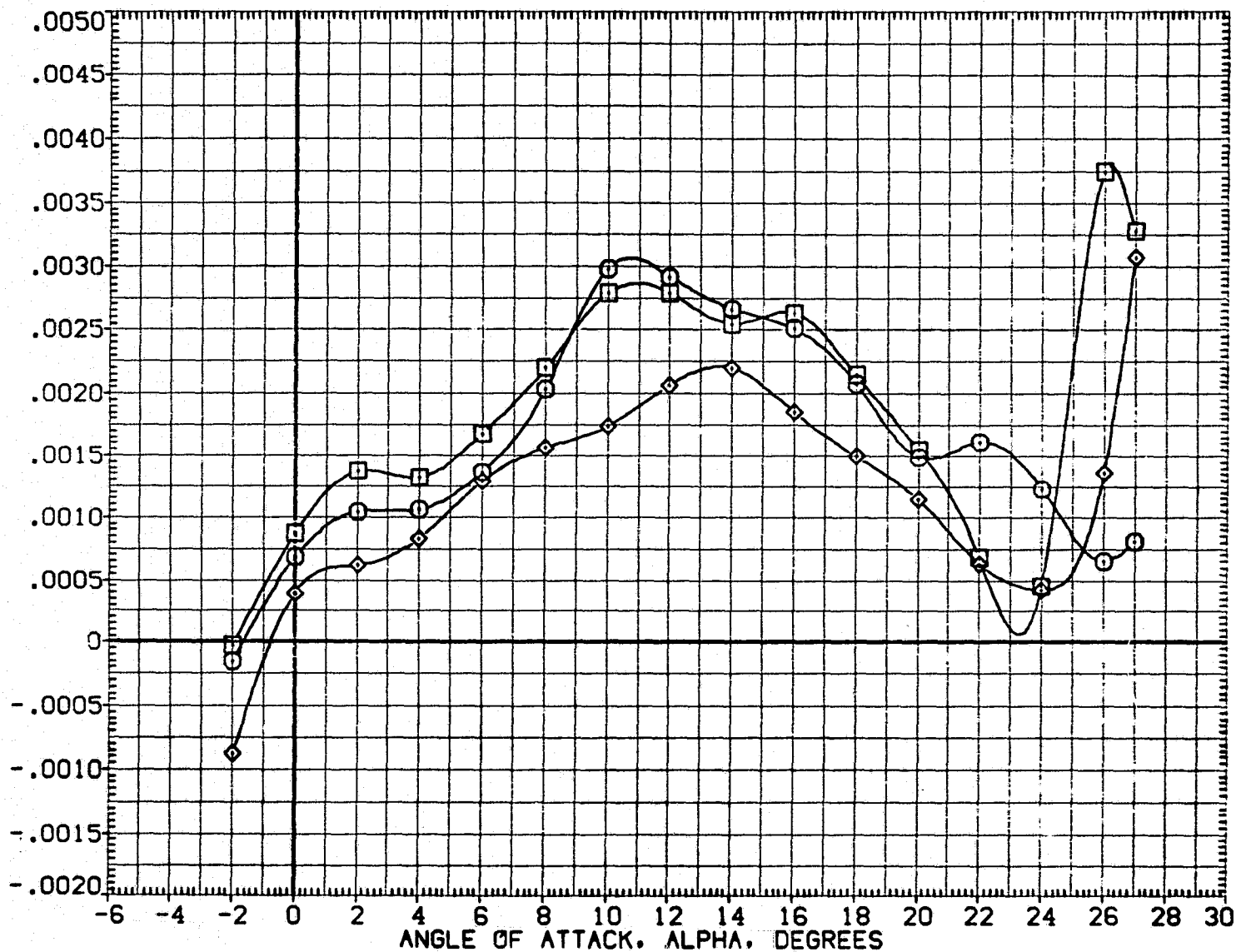


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO10)	0A115	B26 C9 E43 F8 M7 N28 R5 V8 V116
(BTVO08)	0A115	B26 C9 E43 F8 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

LIFT/DRAG RATIO, L/D



FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BTVO05)	DA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
(BTVO10)	DA115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100 IN.
(BTVO08)	DA115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

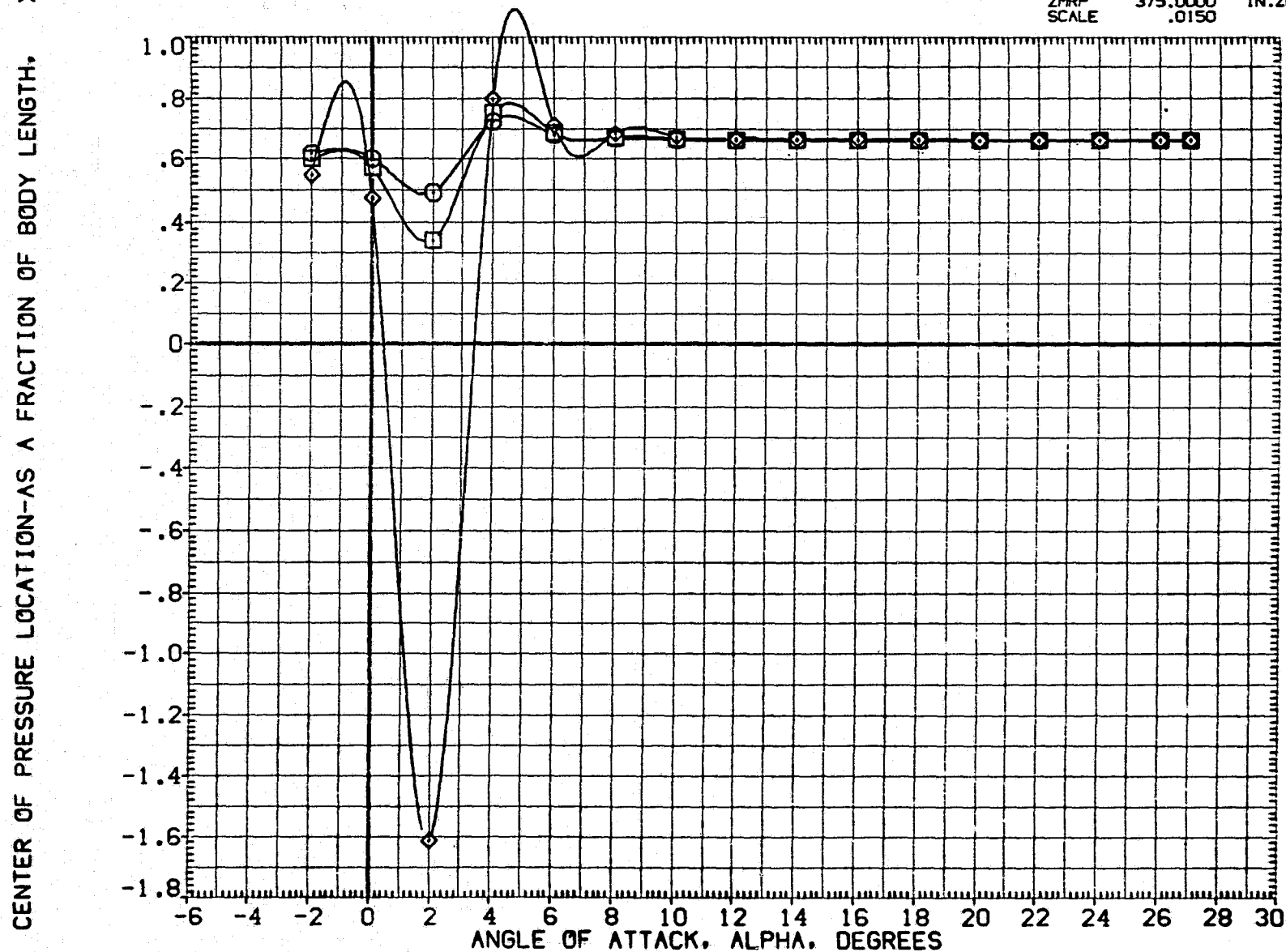


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTVC05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVC10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116
(BTVC08)	0A115 B26 C9 E43 F8 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
.000	.000	.000	.000	LREF 474.8100 IN.
.000	.000	.000	.000	BREF 936.6800 IN.
				XMRP 1076.6800 IN.X0
				YMRP .0000 IN.Y0
				ZMRP 375.0000 IN.Z0
				SCALE .0150

AXIAL FORCE COEFFICIENT, C_A

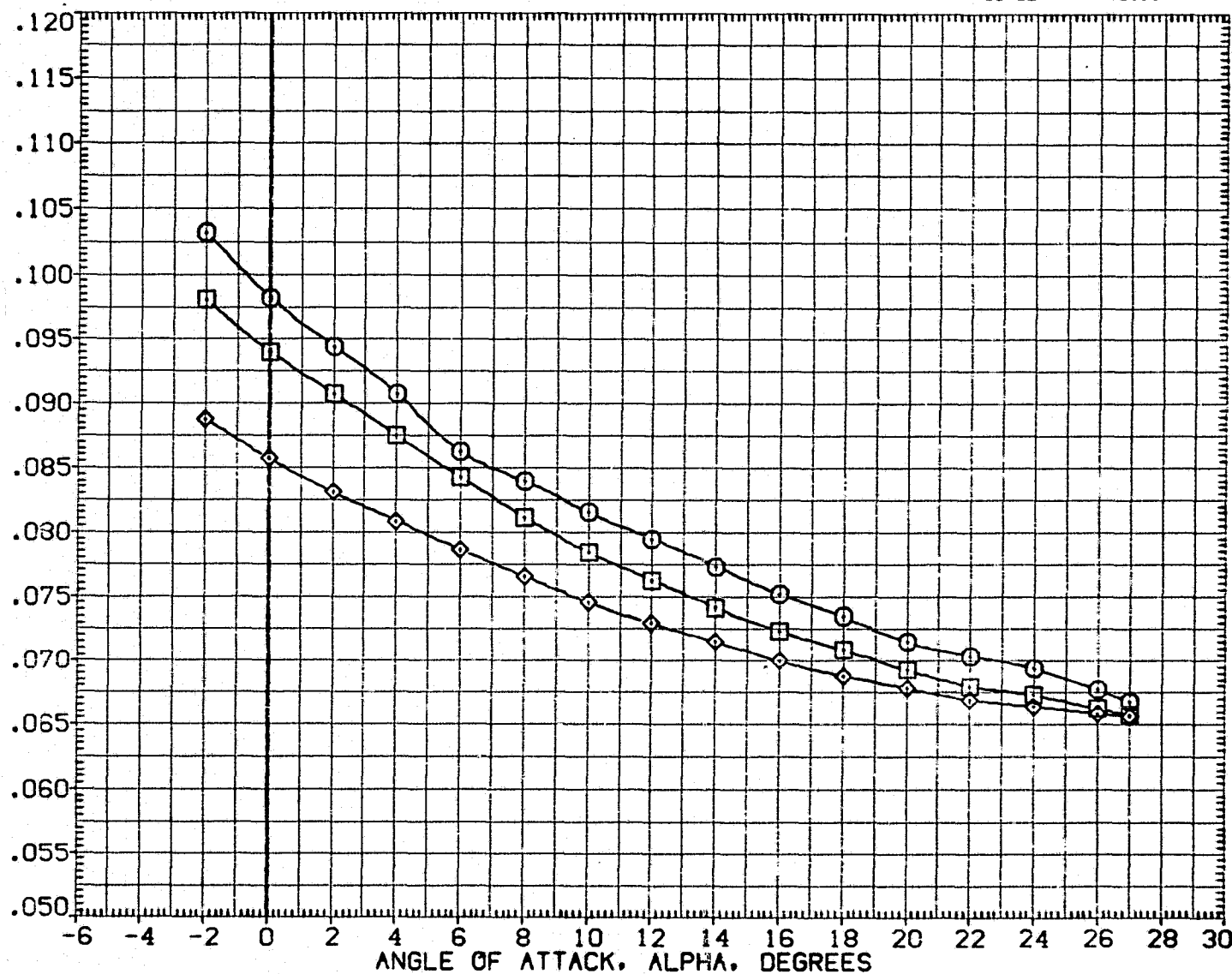


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116
(BTVO08)	0A115 B26 C9 E43 F8

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION	
SREF	2690.0000 SQ.FT.
LREF	474.8100 IN.
BREF	936.6800 IN.
XMRP	1076.6800 IN.X0
YMRP	.0000 IN.Y0
ZMRP	375.0000 IN.Z0
SCALE	.0150

FOREBODY AXIAL FORCE COEFFICIENT, CAF

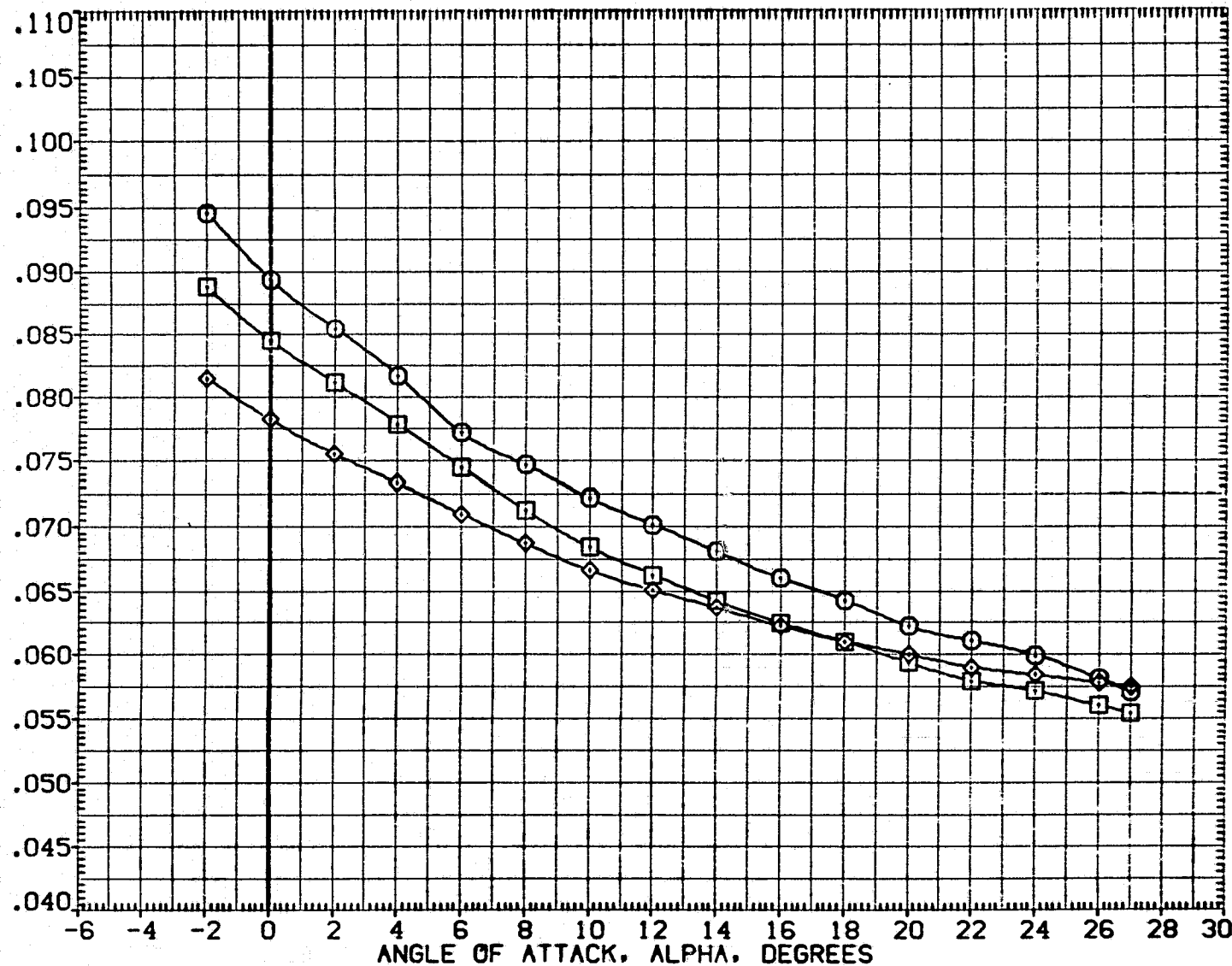


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO10)	○	0A115	B26	C9	E43	F8	M7	N28	R5	V8	V116
(BTVO08)	◇	0A115	B26	C9	E43	F8			R5	V8	V116

ELV-L3	ELV-L1	ELV-R1	ELV-R3
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SG.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

BASE AXIAL FORCE COEFFICIENT, CAB

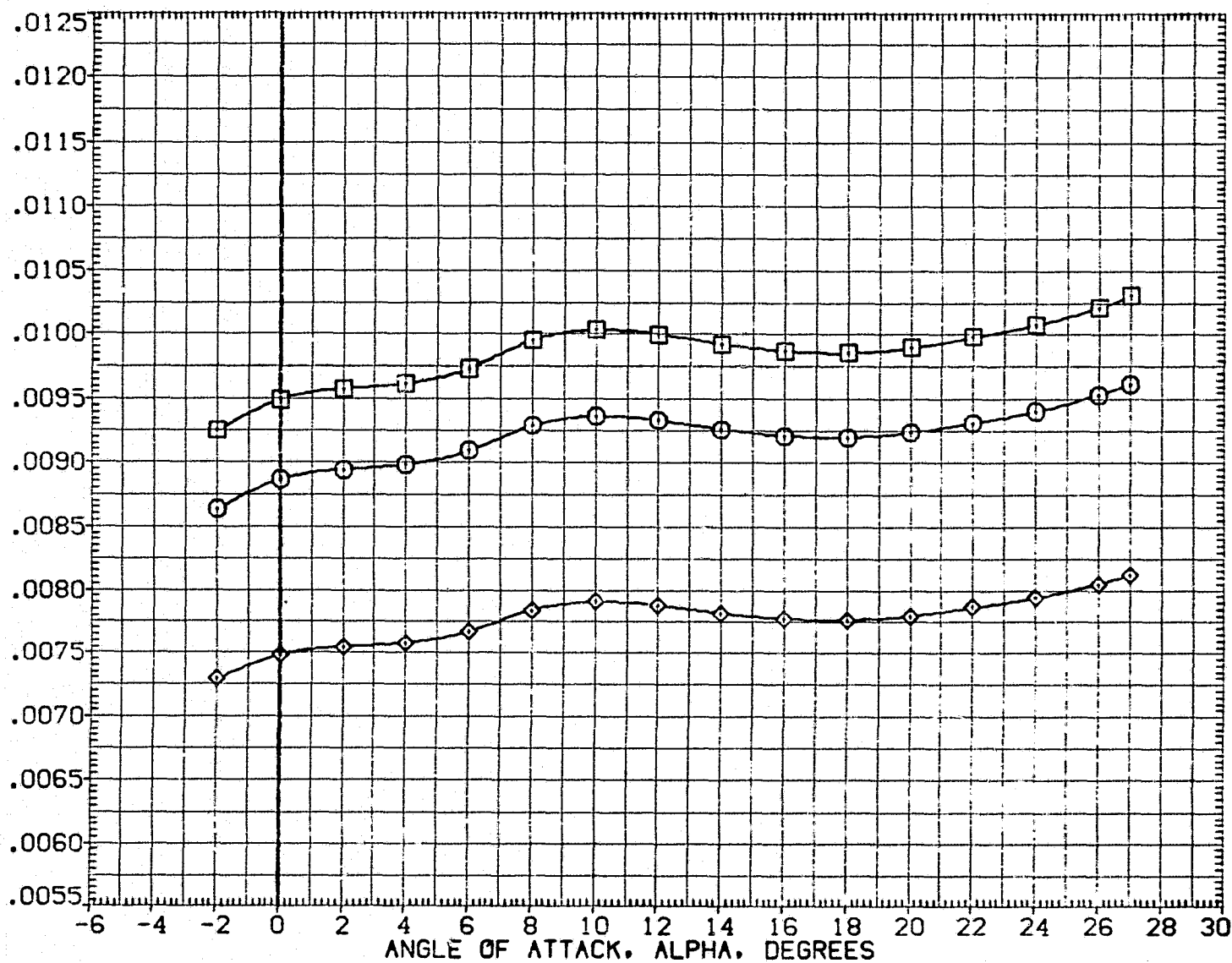


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XM RP	1076.6800	IN.X0
						YM RP	.0000	IN.Y0
						ZM RP	375.0000	IN.Z0
						SCALE	.0150	

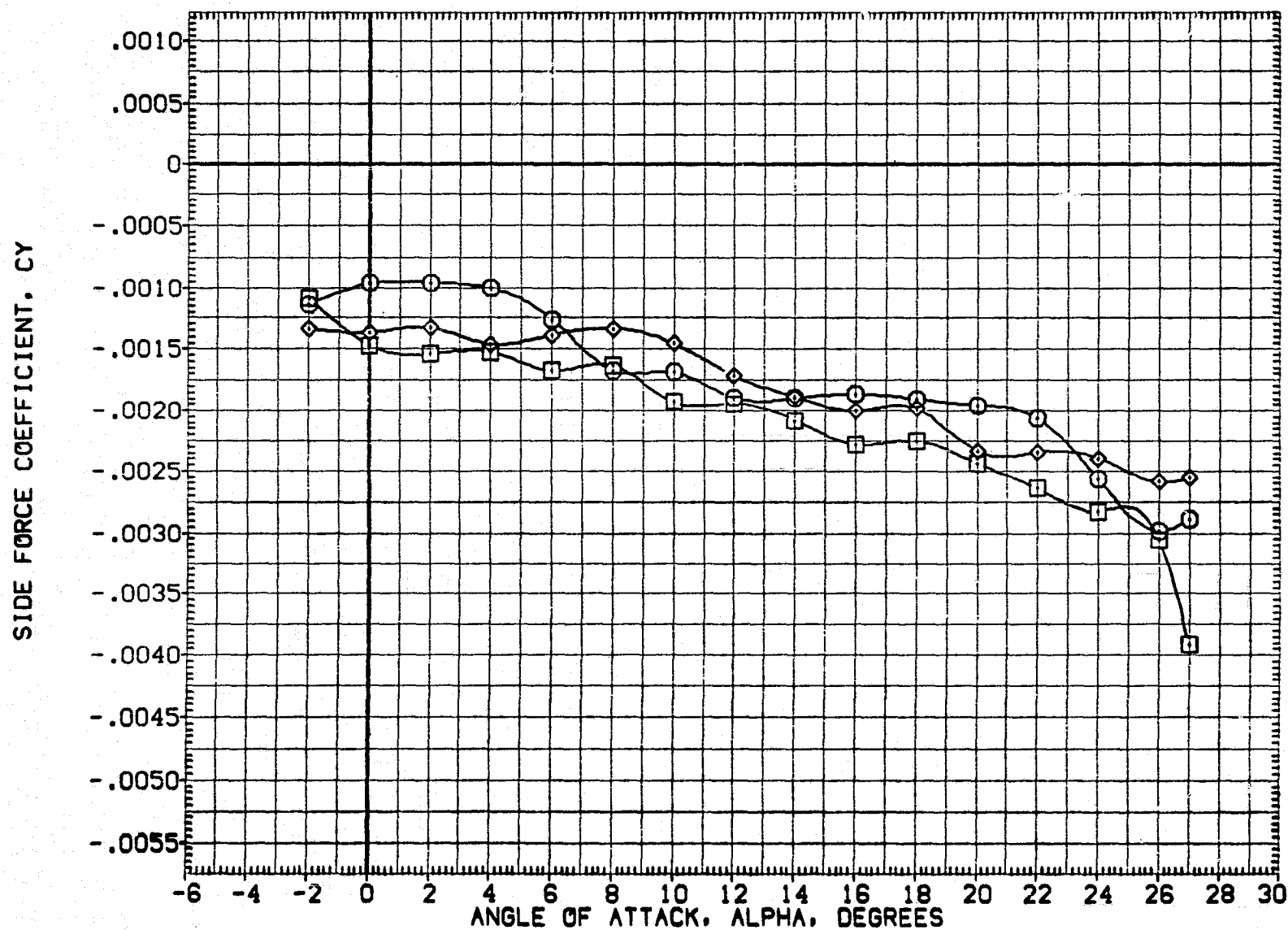


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100 IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

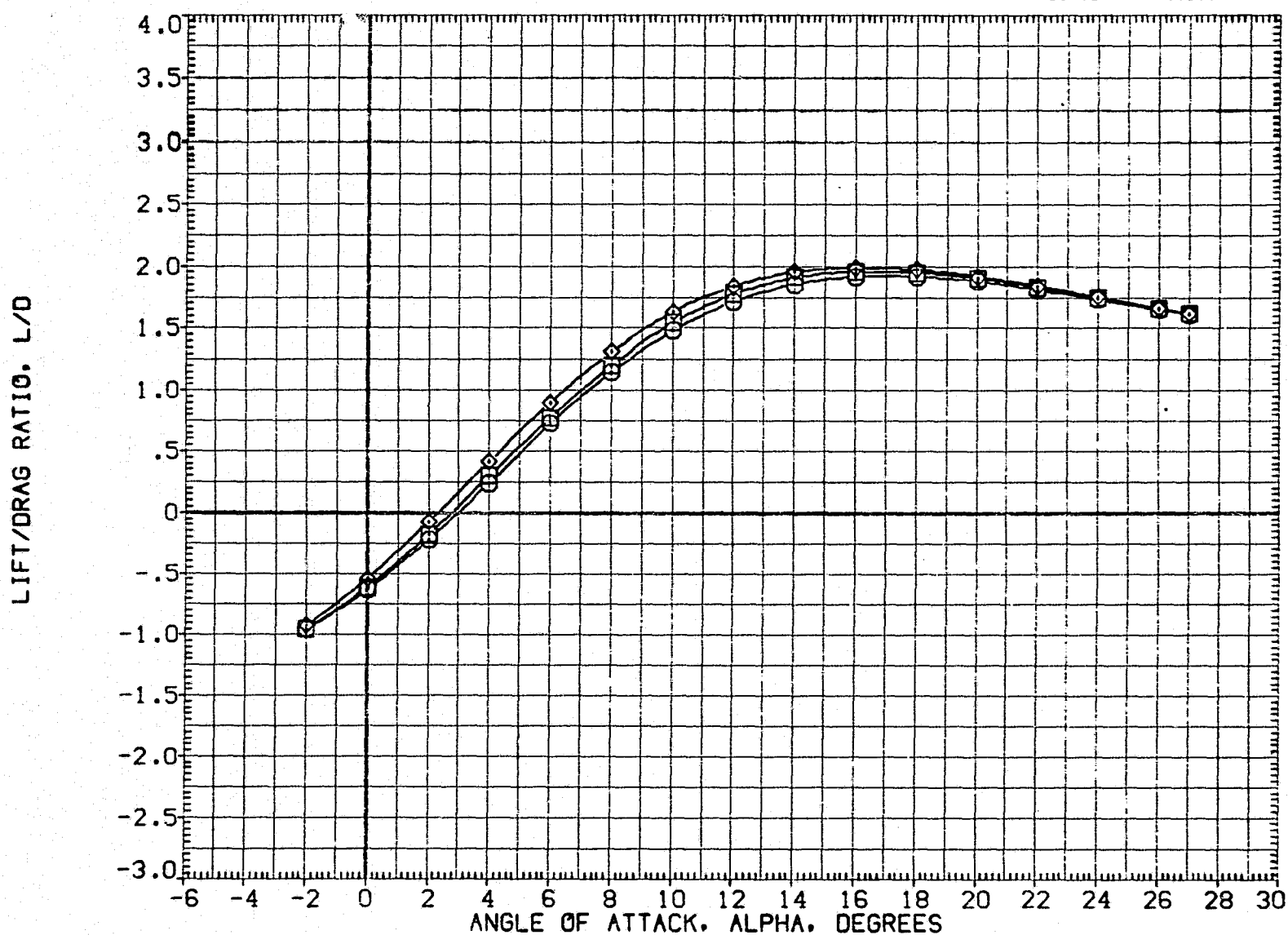


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

CENTER OF PRESSURE LOCATION-AS A FRACTION OF BODY LENGTH, XCP/L

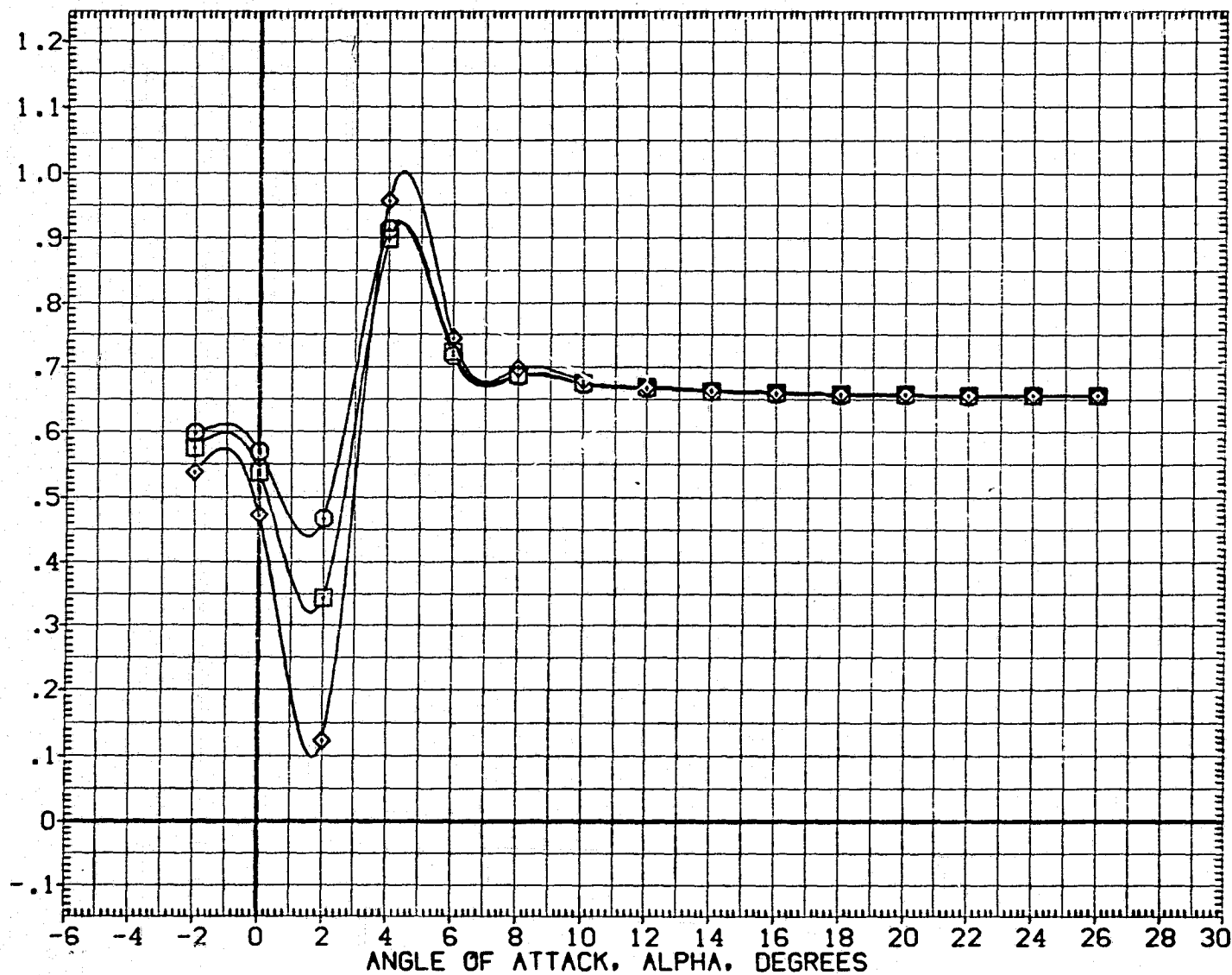


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BT005)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(BT010)	□	0A115	B26 C9 E43 F8 M7 N28 R5 V8 W116
(BT008)	◇	0A115	B26 C9 E43 F8 R5 V8 W116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

AXIAL FORCE COEFFICIENT, C_A

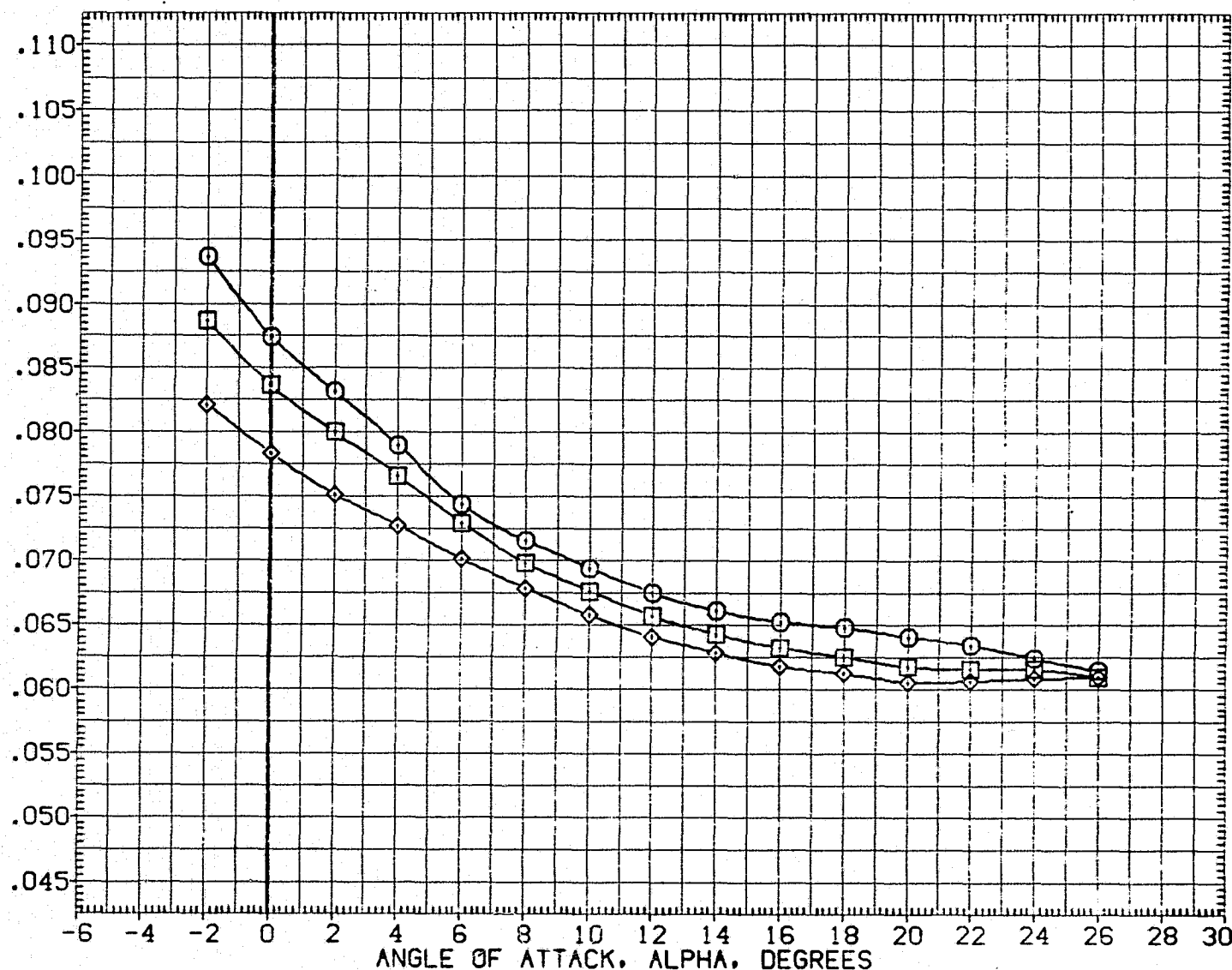


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO10)	GA115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	GA115 B26 C9 E43 F8	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

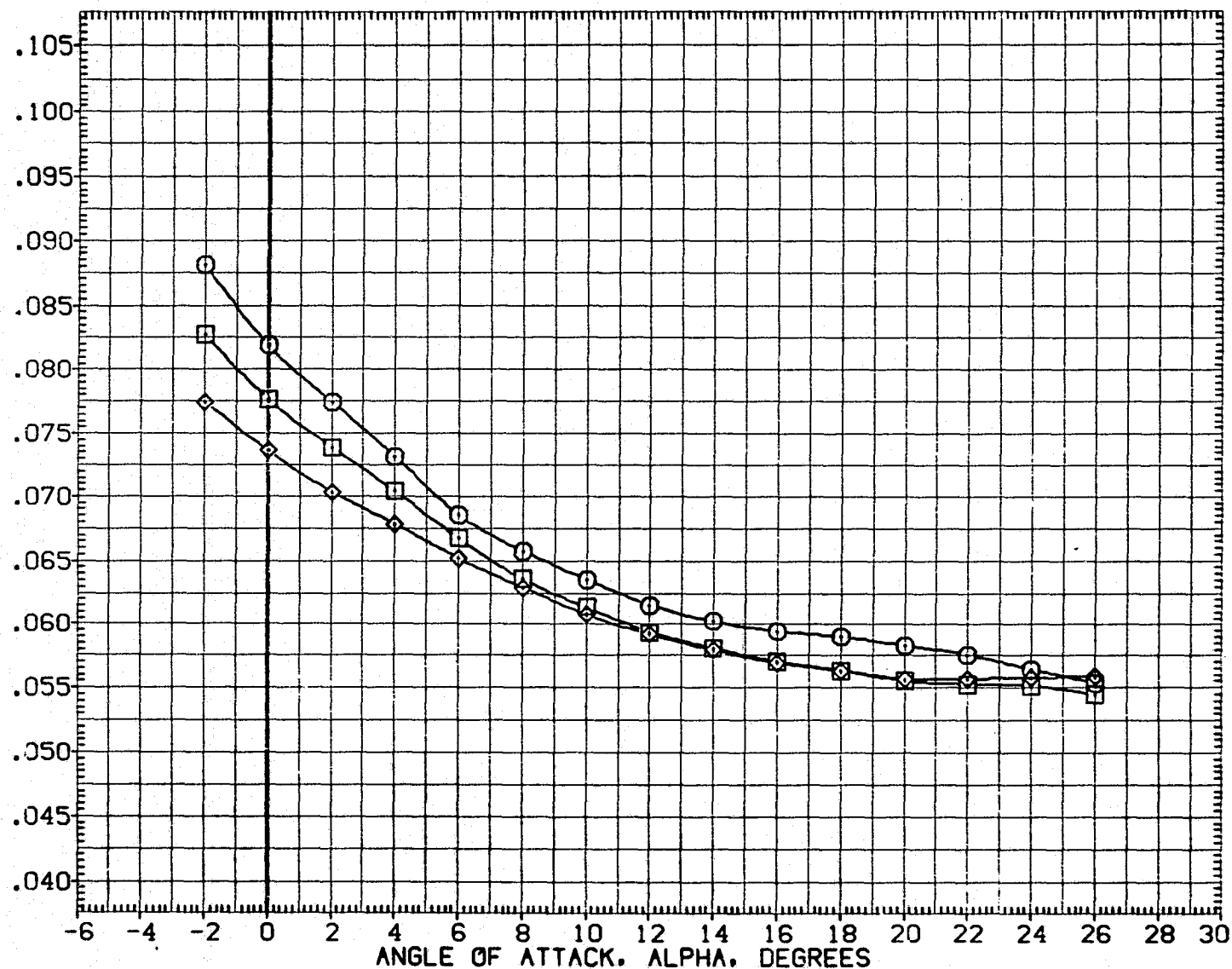


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO10)	□	0A115	B26 C9 E43 F8 M7 N28 R5 V8 V116
(BTVO08)	◇	0A115	B26 C9 E43 F8 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

BASE AXIAL FORCE COEFFICIENT, CAB

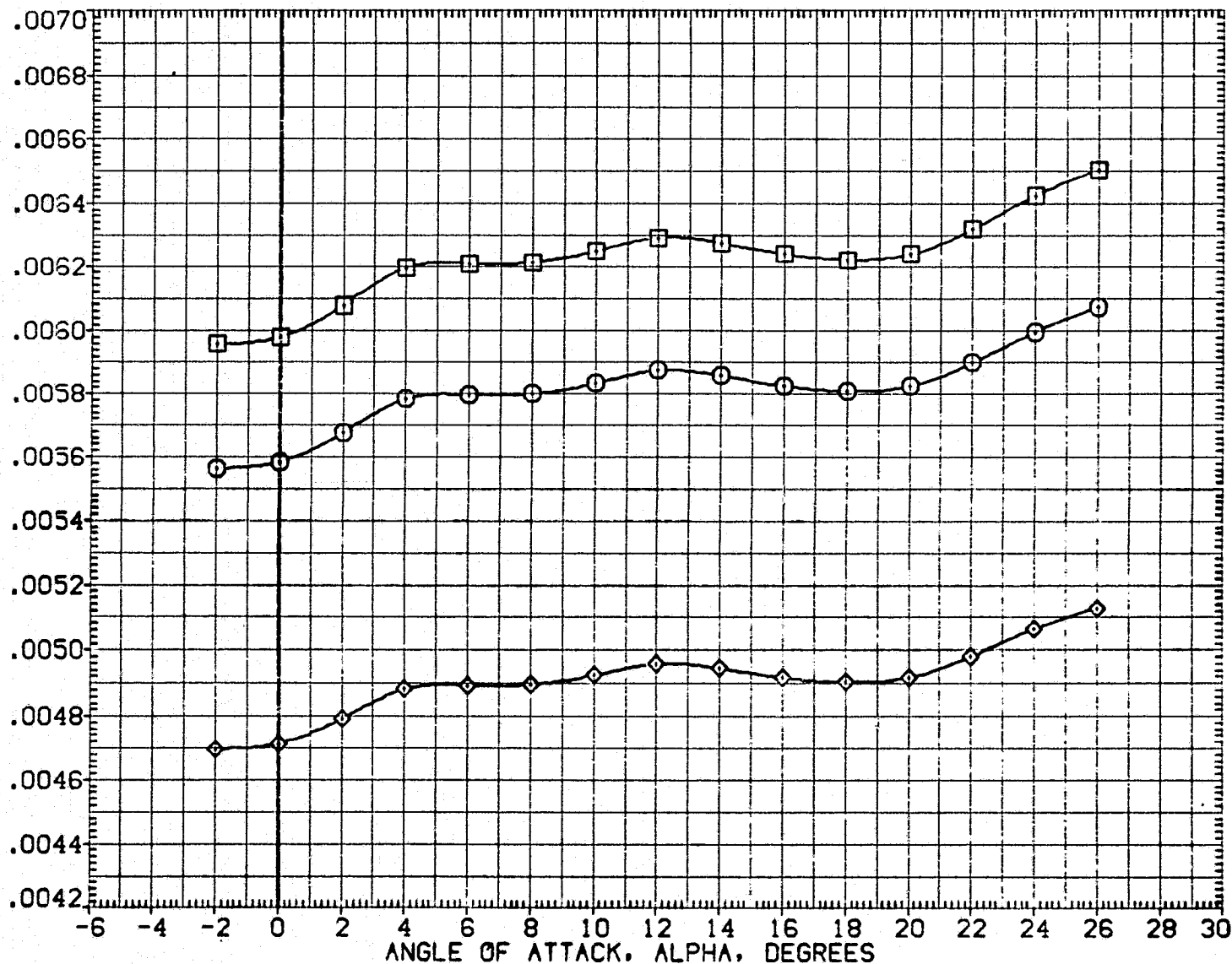


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO10)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(BTVO08)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

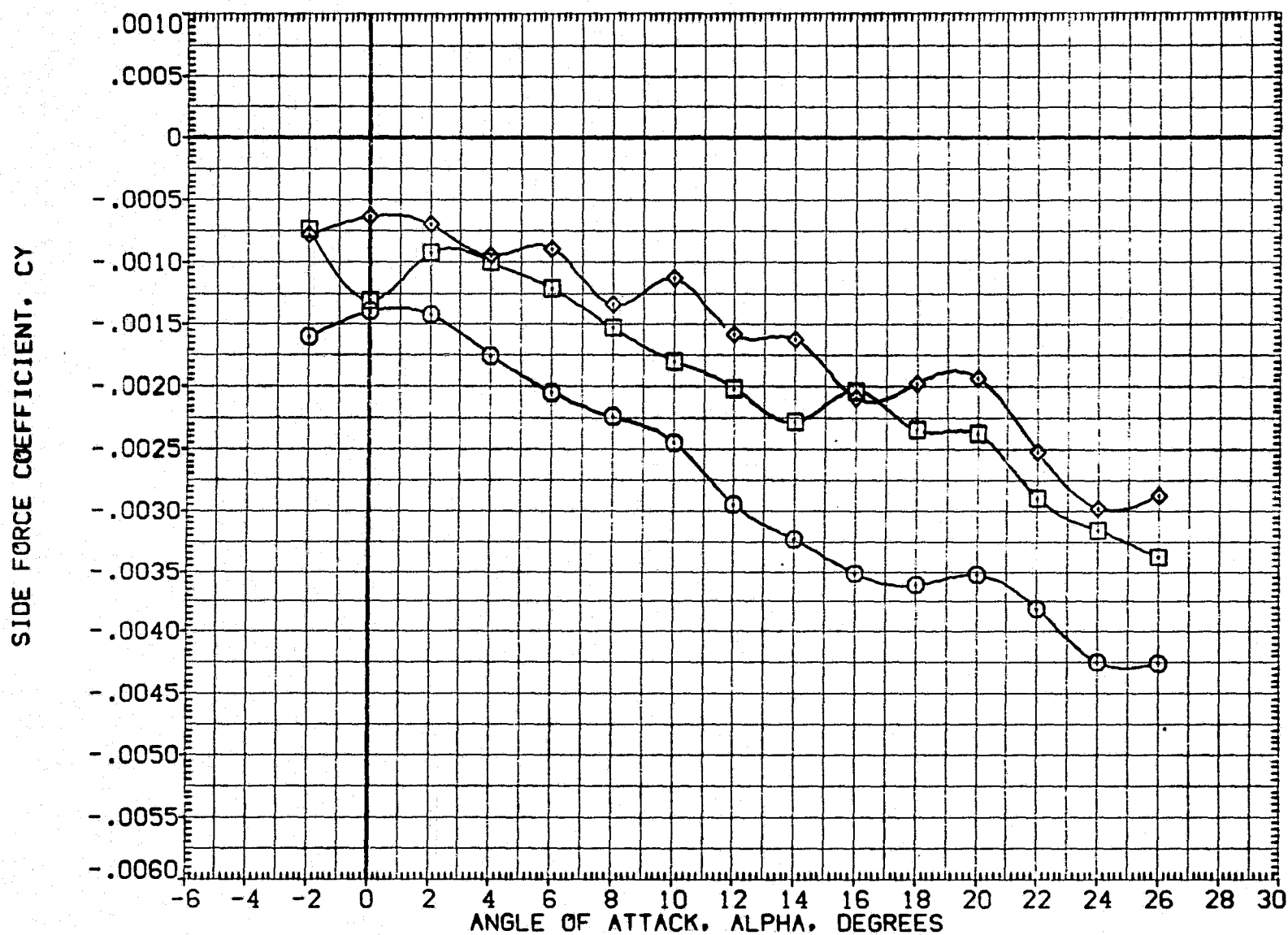


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTV005)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTV010)	□	0A115	B26	C9	E43	F8	M7	N28	R5	V8	V116
(BTV008)	◇	0A115	B26	C9	E43	F8			R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

LIFT/DRAG RATIO, L/D

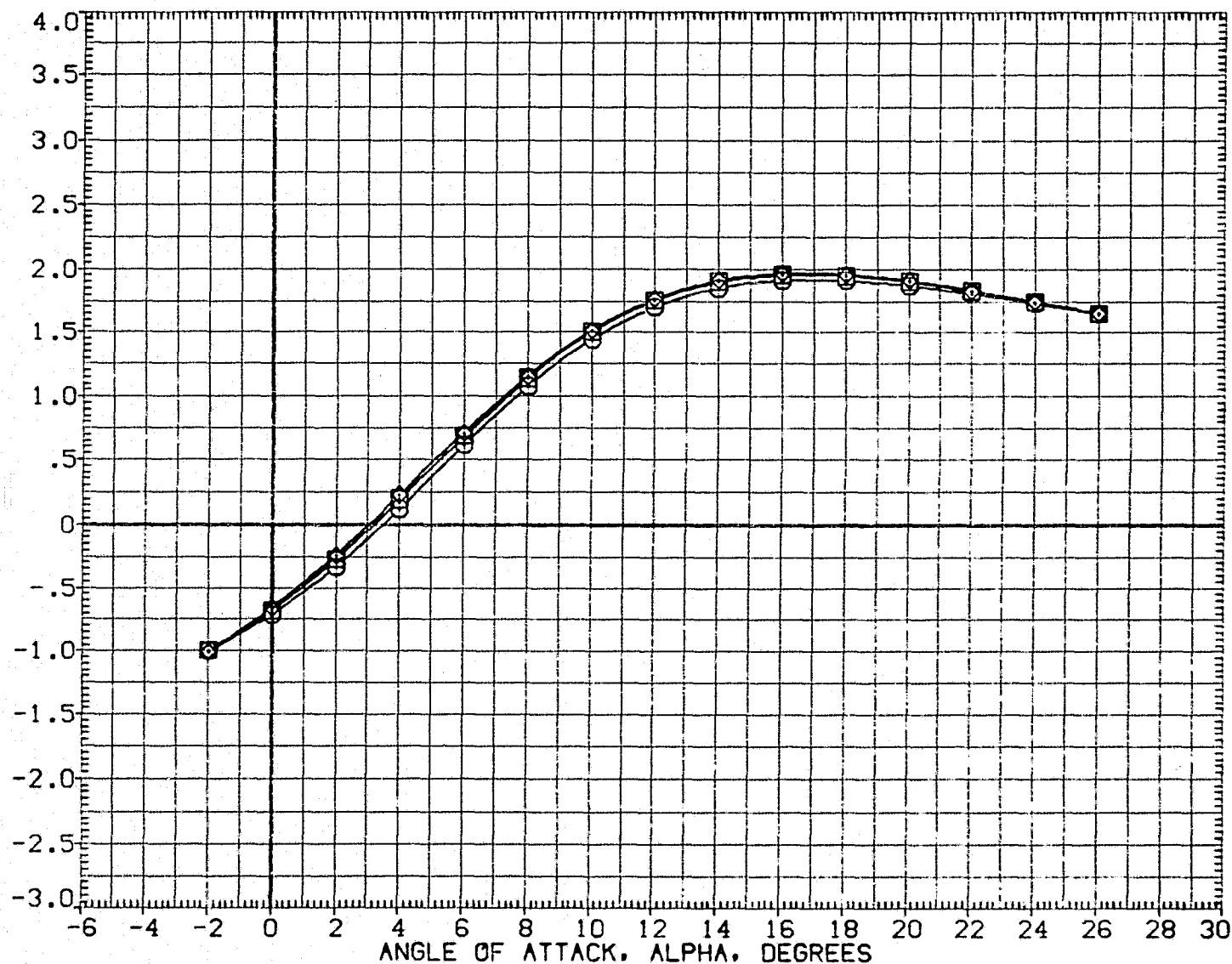


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116
(RTV010)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 W116
(RTV008)	0A115 B26 C9 E43 F8 R5 V8 W116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

LIFT COEFFICIENT, CL

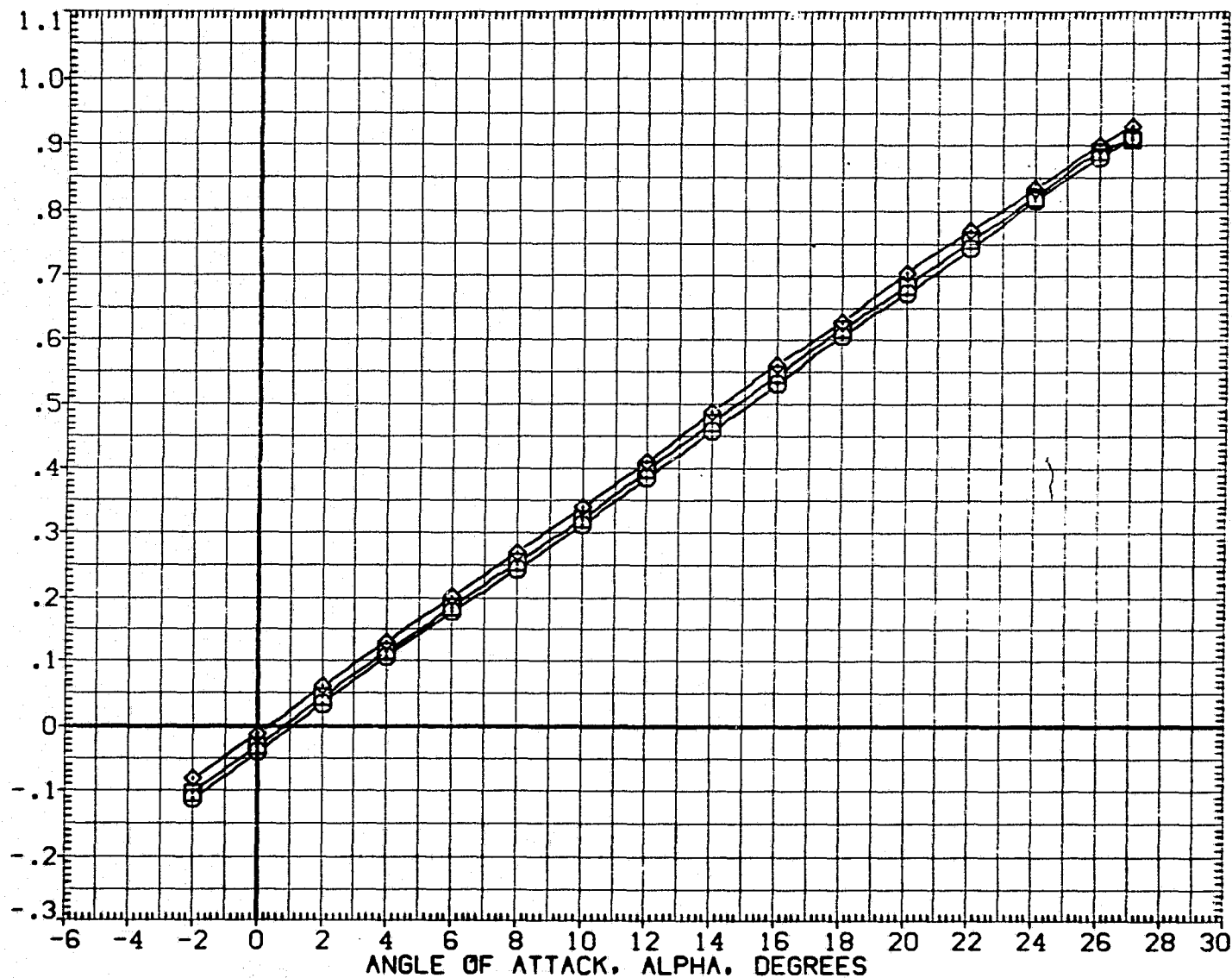


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTV005)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	W116
(RTV010)	□	0A115	B26	C9	E43	F8	M7	N28	R5	V8	W116
(RTV008)	◇	0A115	B26	C9	E43	F8			R5	V8	W116

ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

DRAG COEFFICIENT, CD

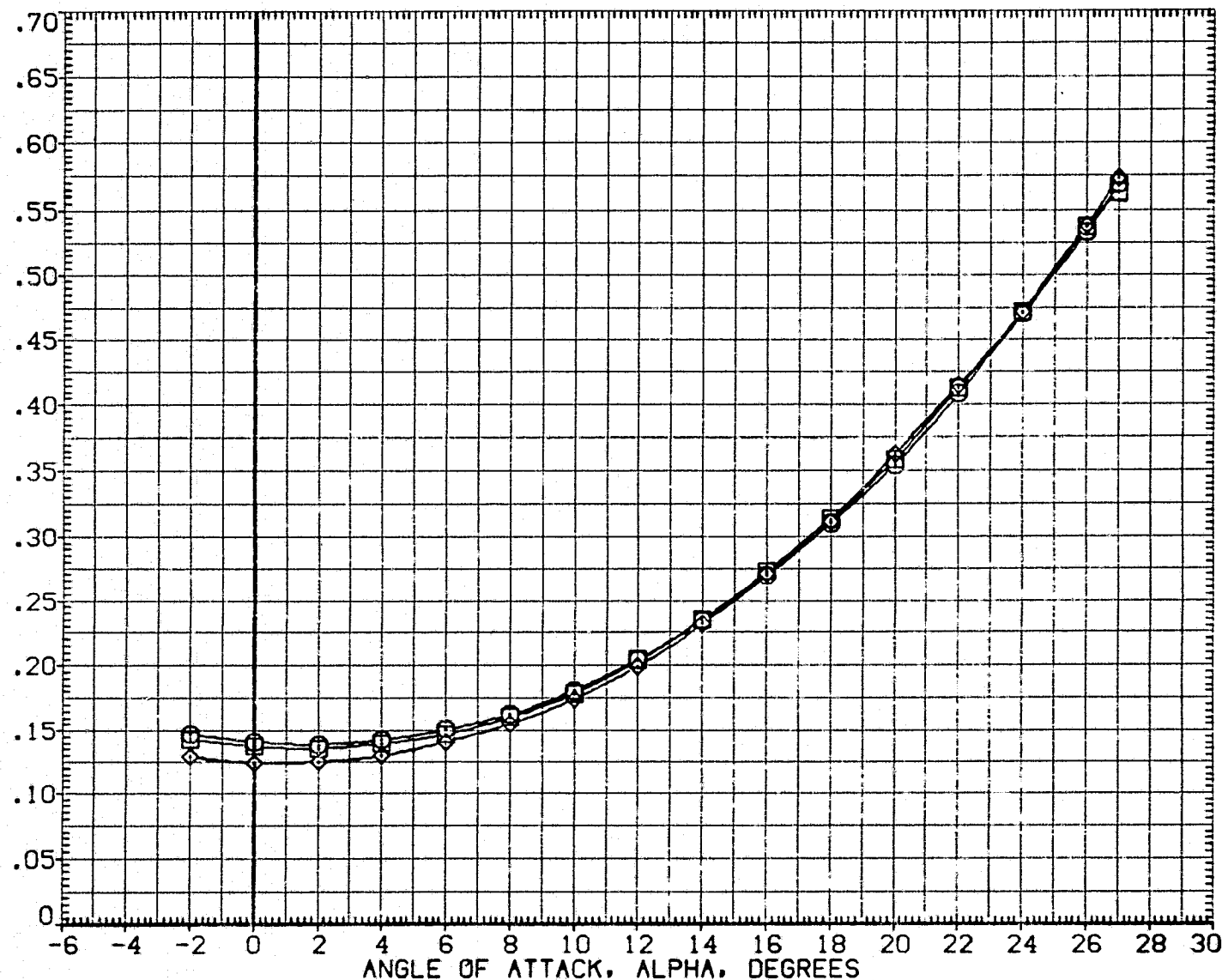


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(A) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(RTV010)	□ 0A115 B26 C9 E43 F8 M7 N28 R5 V8 W116	.000	.000	.000	.000	LREF	474.8100	IN.
(RTV008)	◇ 0A115 B26 C9 E43 F8 R5 V8 W116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

LIFT COEFFICIENT, CL

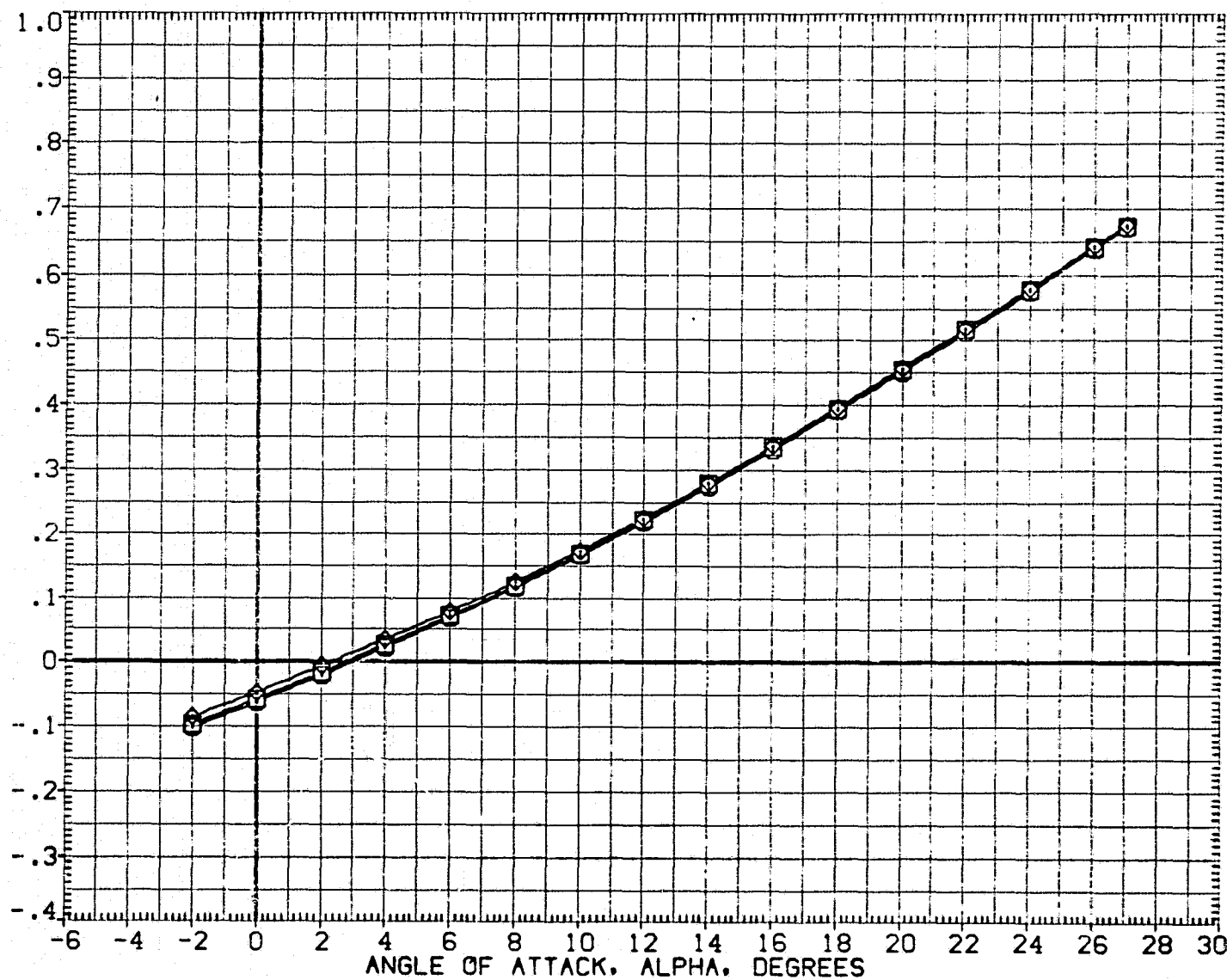


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTV005)	□	GA115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(RTV010)	□	GA115	B26	C9	E43	F8	M7	N28	R5	V8	V116
(RTV008)	◇	GA115	B26	C9	E43	F8			R5	V8	V116

ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

DRAG COEFFICIENT, CD

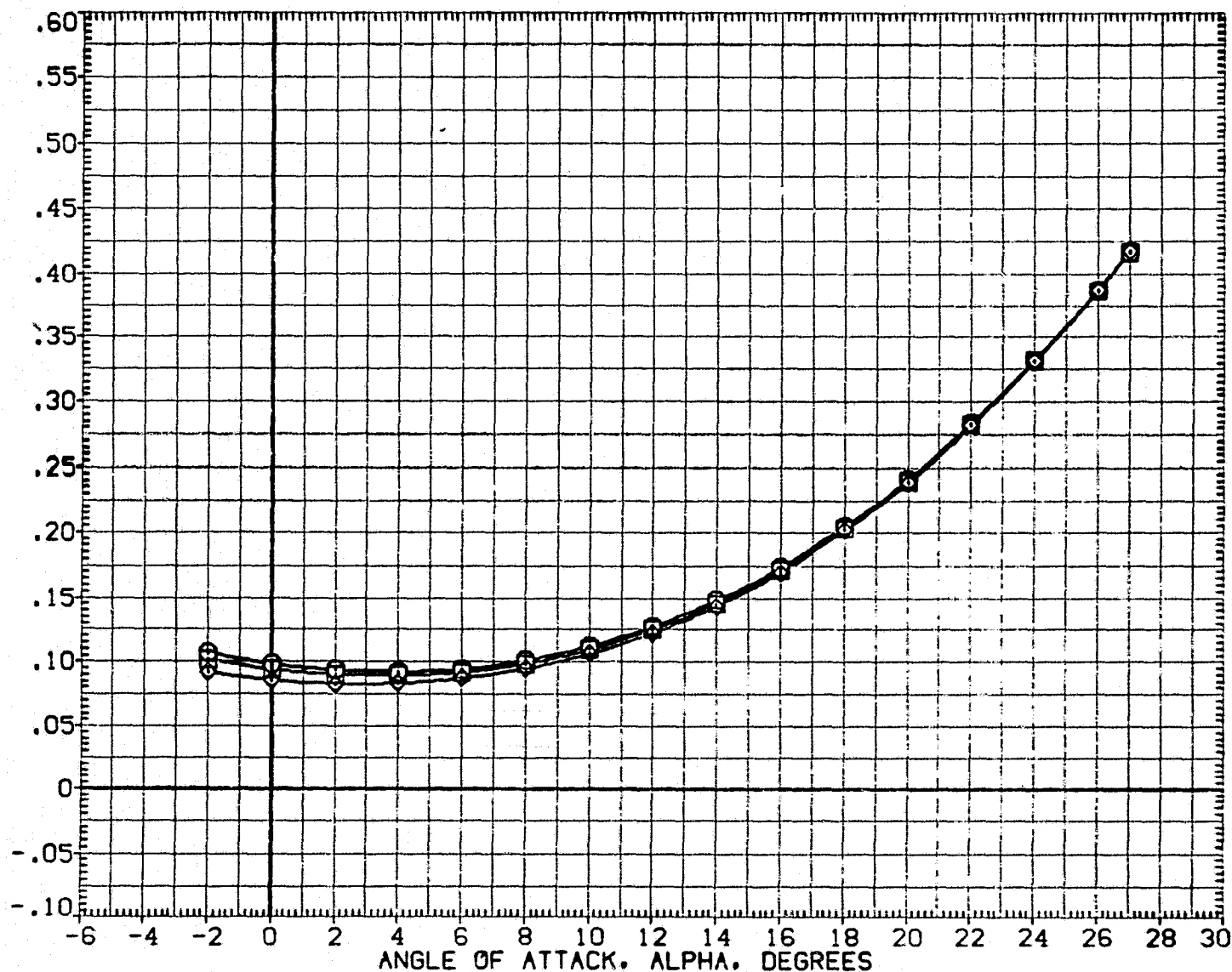


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV010)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116
(RTV008)	0A115 B26 C9 E43 F8 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
.000	.000	.000	.000	LREF	474.8100 IN.
.000	.000	.000	.000	BREF	936.6800 IN.
				XMRF	1076.6800 IN.X0
				YMRF	.0000 IN.Y0
				ZMRF	375.0000 IN.Z0
				SCALE	.0150

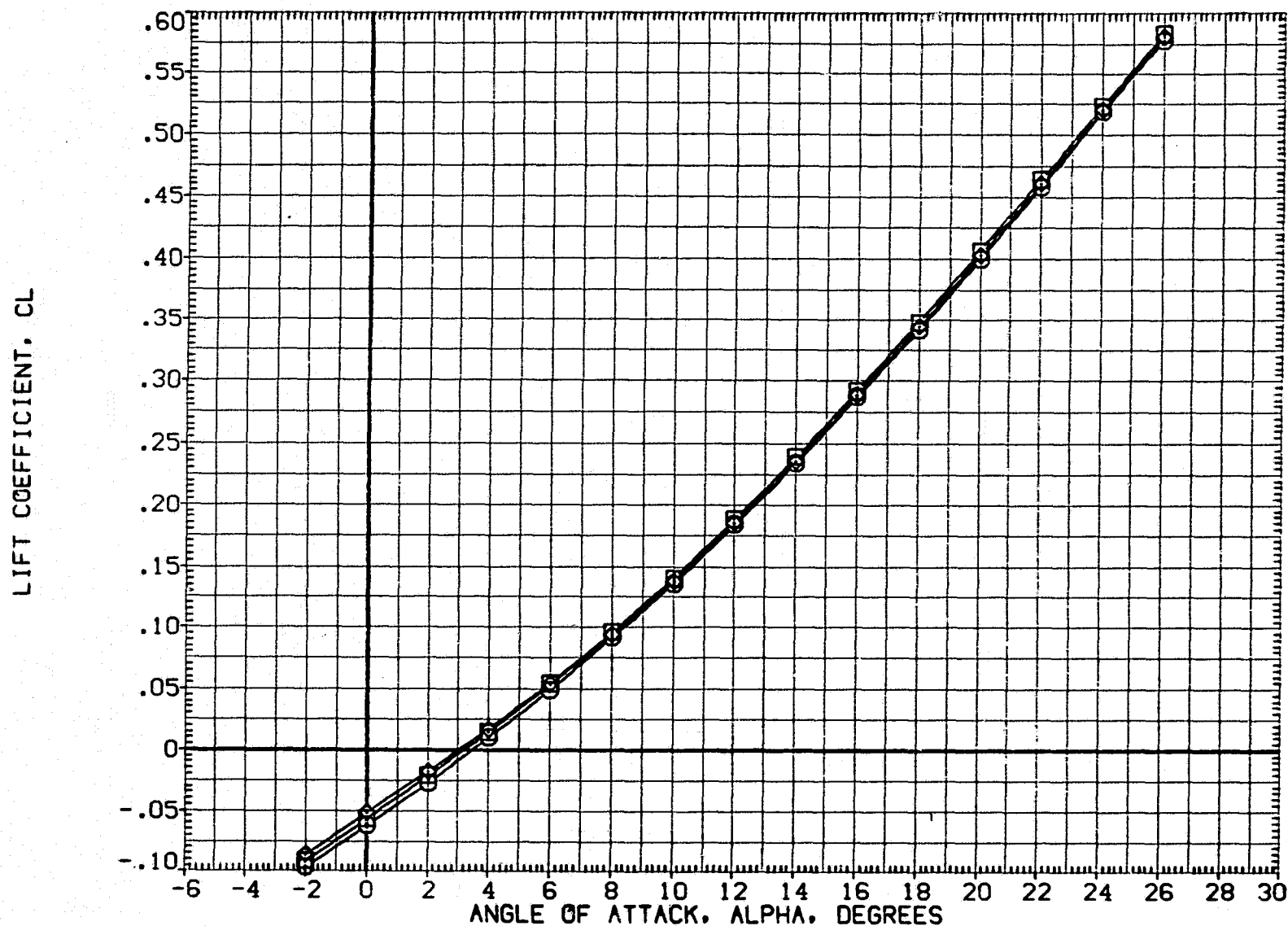


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.00	SQ.FT.
(RTV010)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(RTV008)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

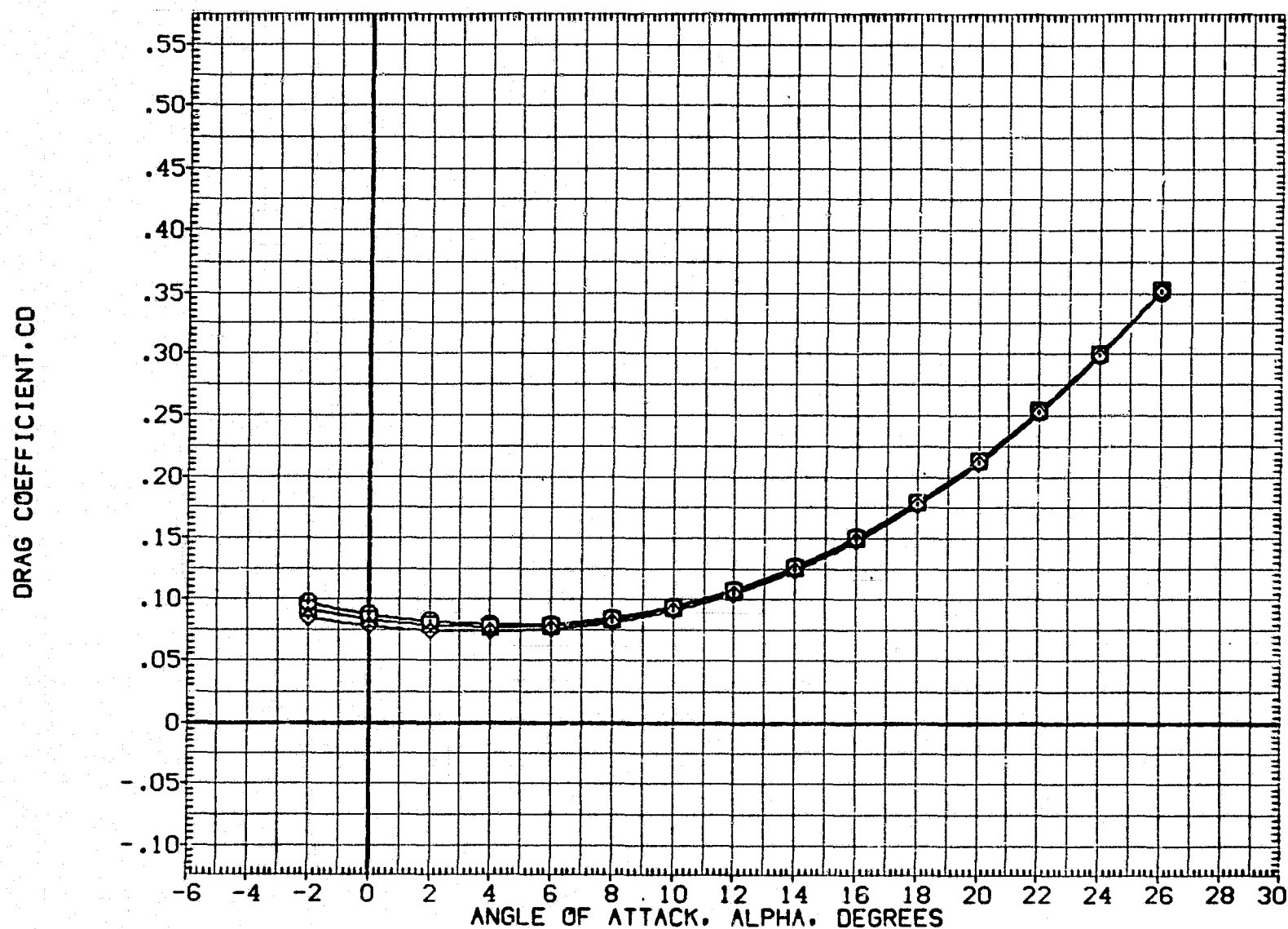


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(RTV010)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(RTV008)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

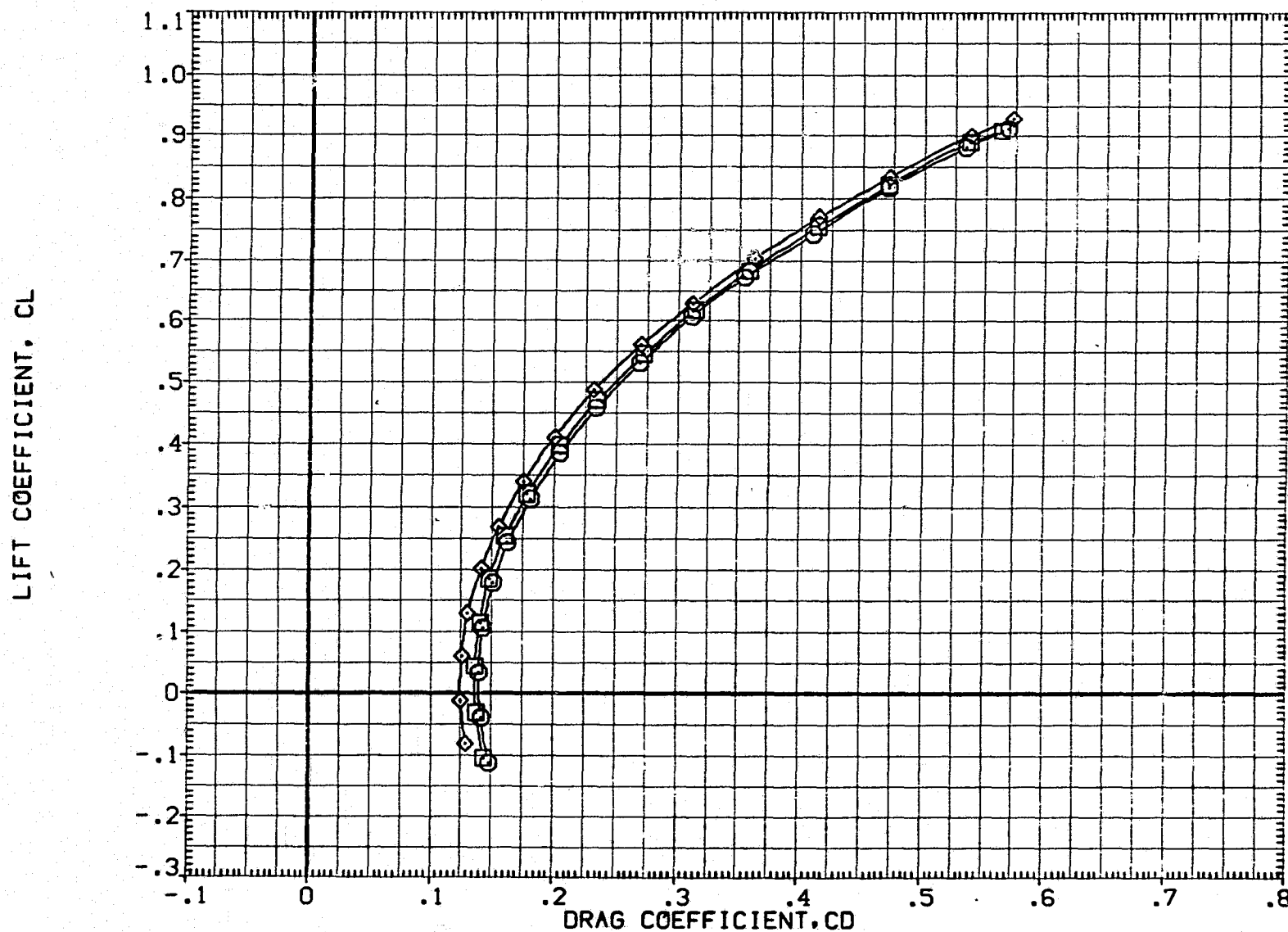


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTV005)	○	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV010)	□	0A115	B26 C9 E43 F8 M7 N28 R5 V8 V116
(RTV008)	◇	0A115	B26 C9 E43 F8 R5 V8 V116

ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

LIFT COEFFICIENT, CL

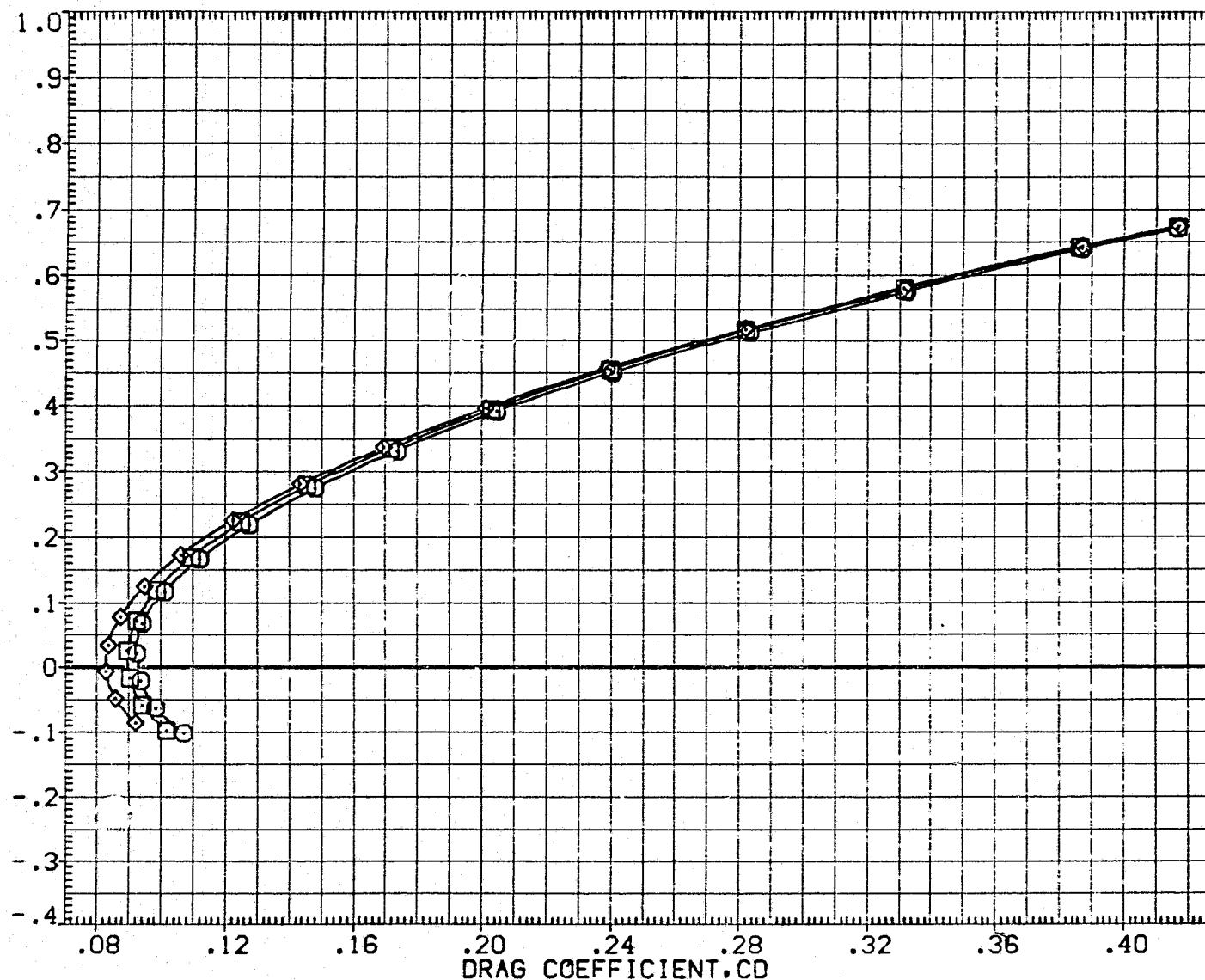


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(RTV010)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 W116	.000	.000	.000	.000	LREF	474.8100	IN.
(RTV008)	0A115 B26 C9 E43 F8 R5 V8 W116	.000	.000	.000	.000	BREF	935.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

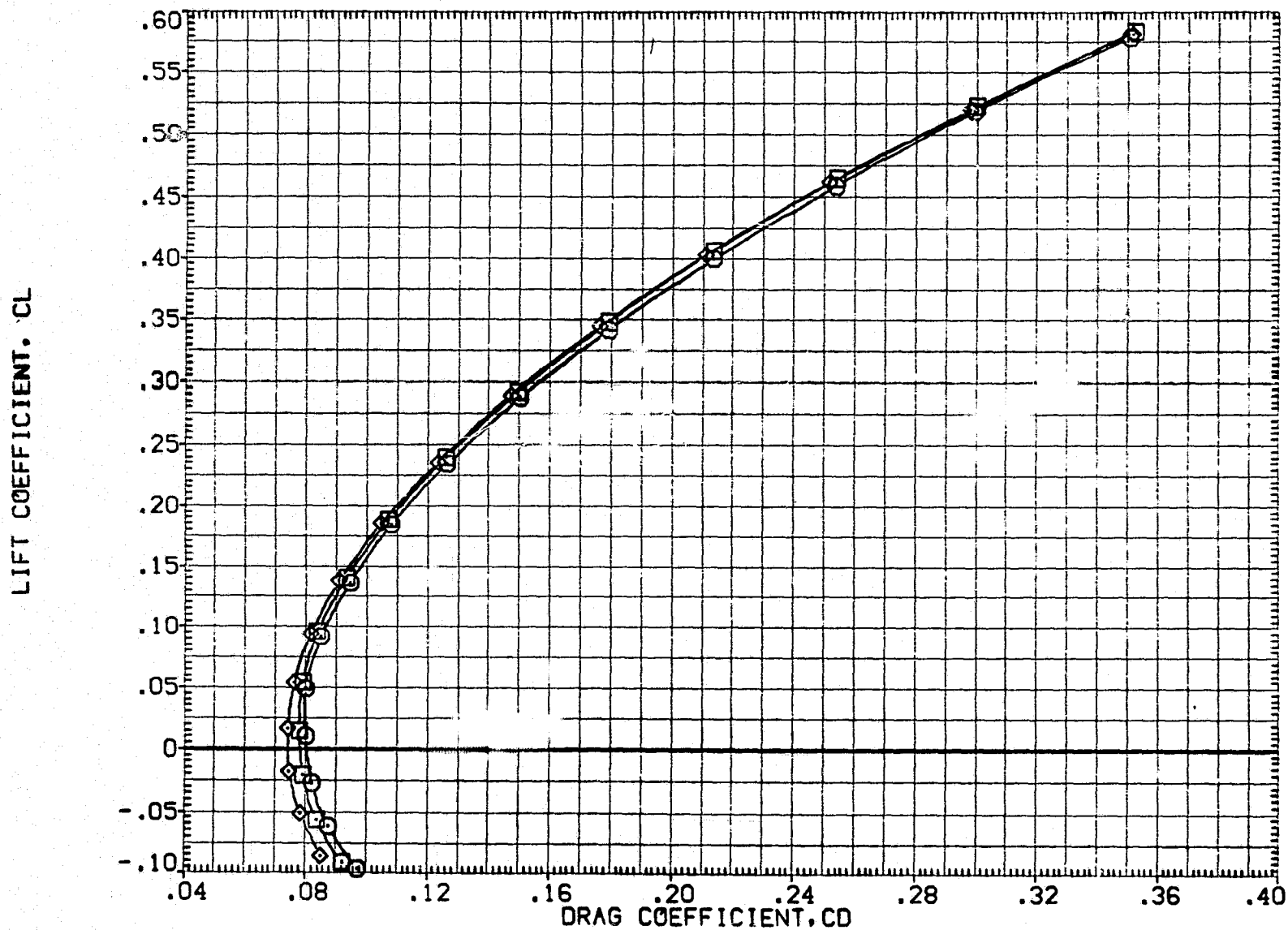


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV005)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(ATV010)	□	0A115	B26	C9	E43	F8	M7	N28	R5	V8	V116
(ATV008)	◇	0A115	B26	C9	E43	F8			R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6900	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

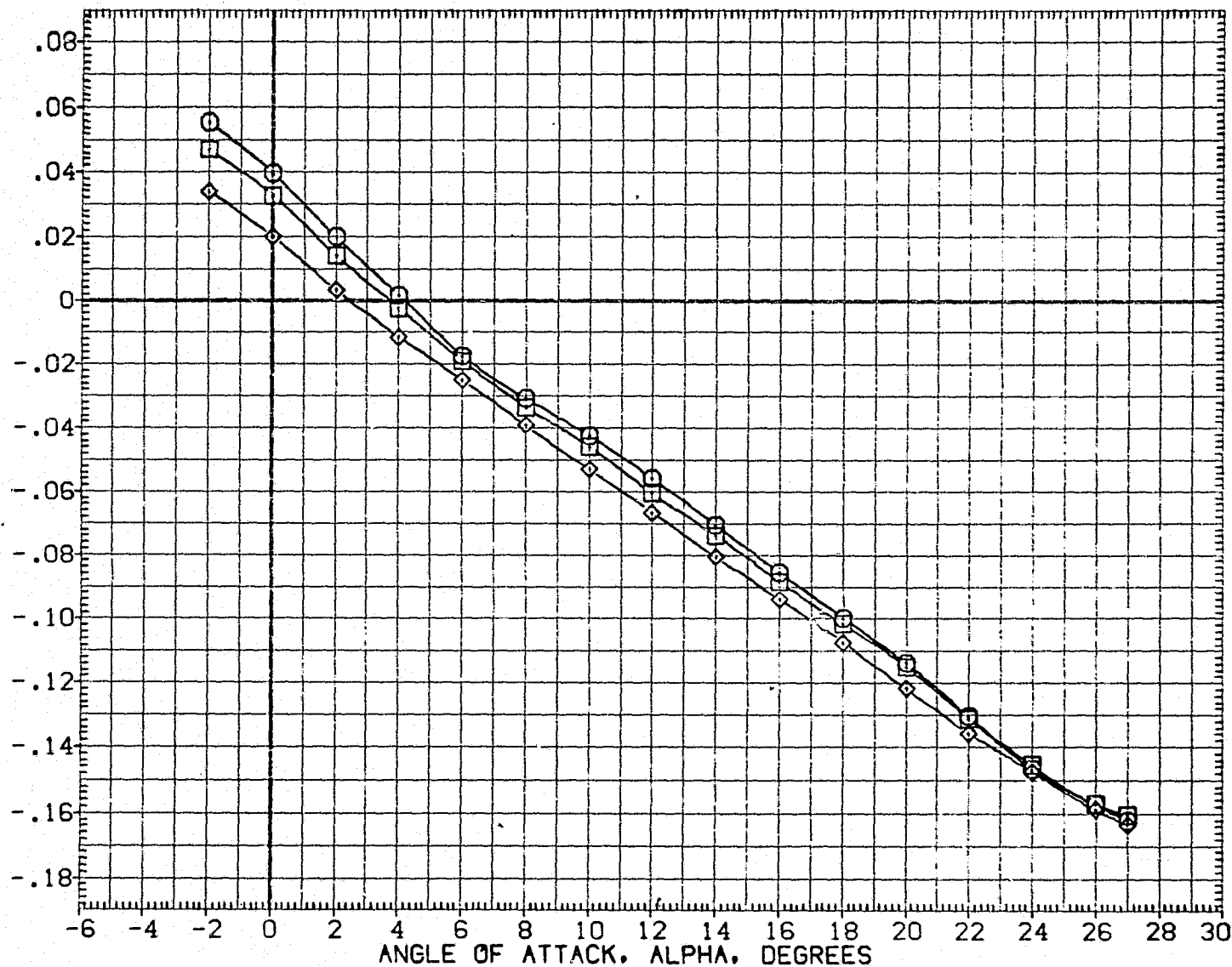


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(ATV010)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(ATV003)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

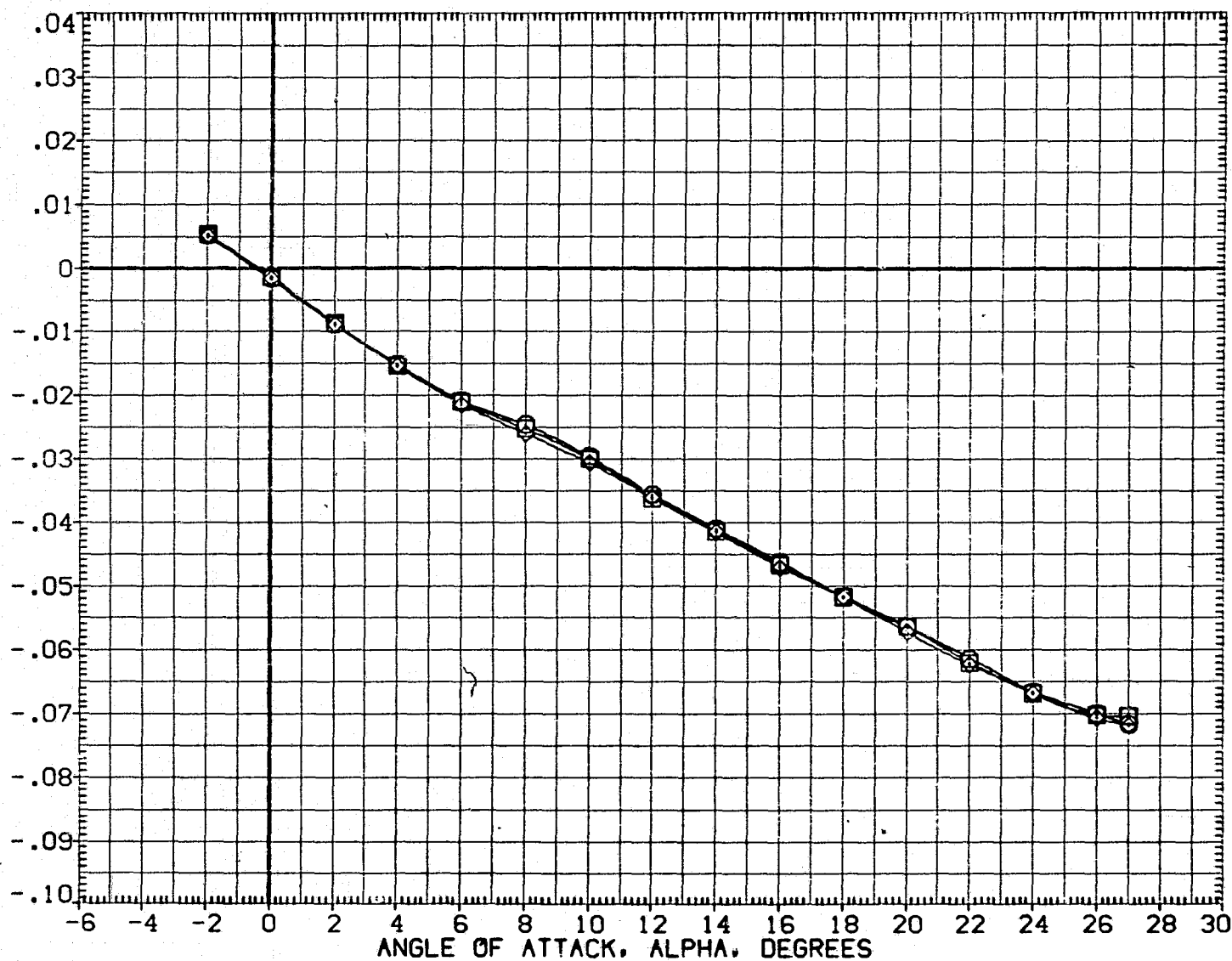


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV005)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV010)	□	0A115	B26 C9 E43 F8 M7 N28 R5 V8 V116
(ATV008)	◇	0A115	B26 C9 E43 F8 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHE1 + CHE0)

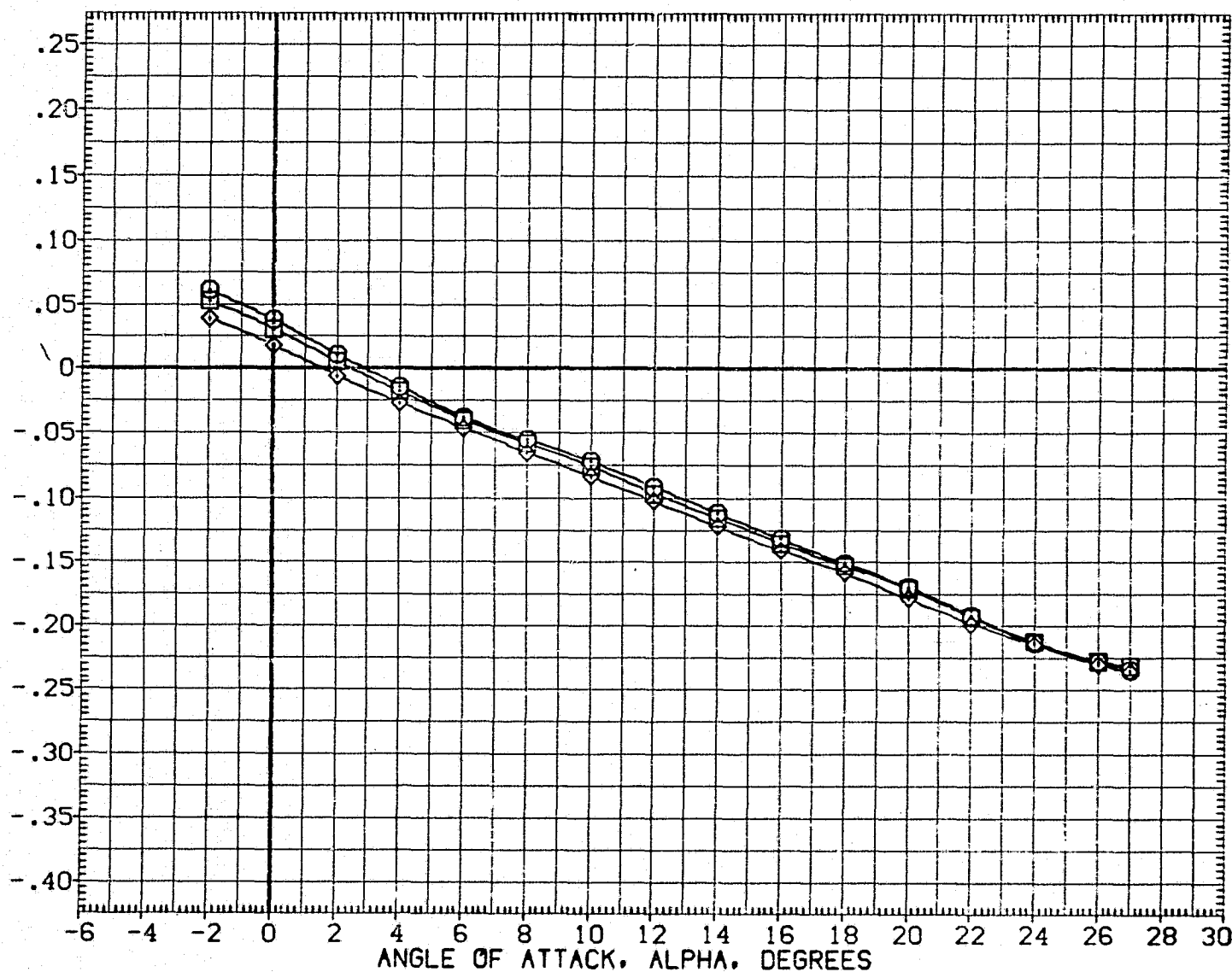


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(ATV010)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(ATV006)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

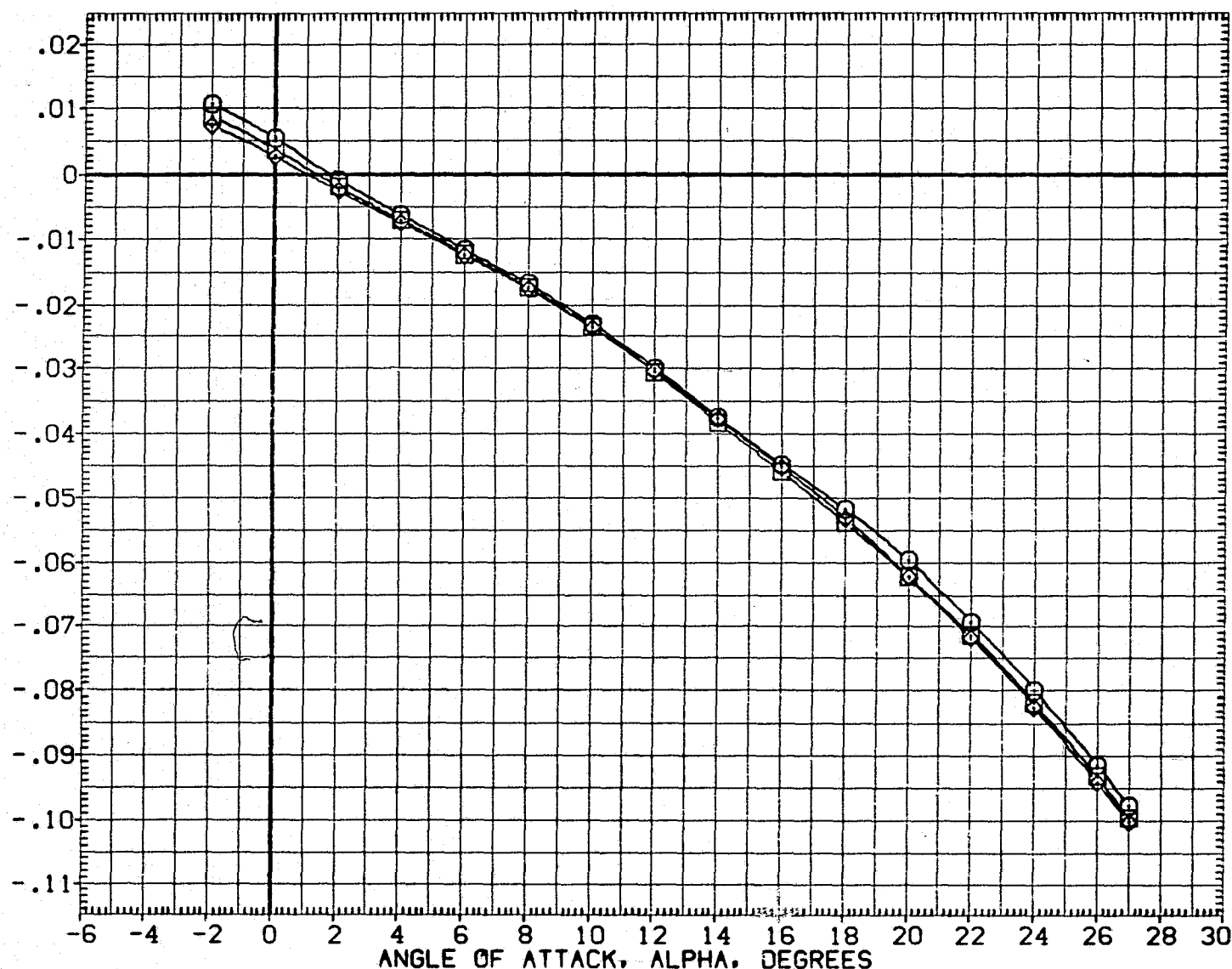


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(ATV010)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(ATV008)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

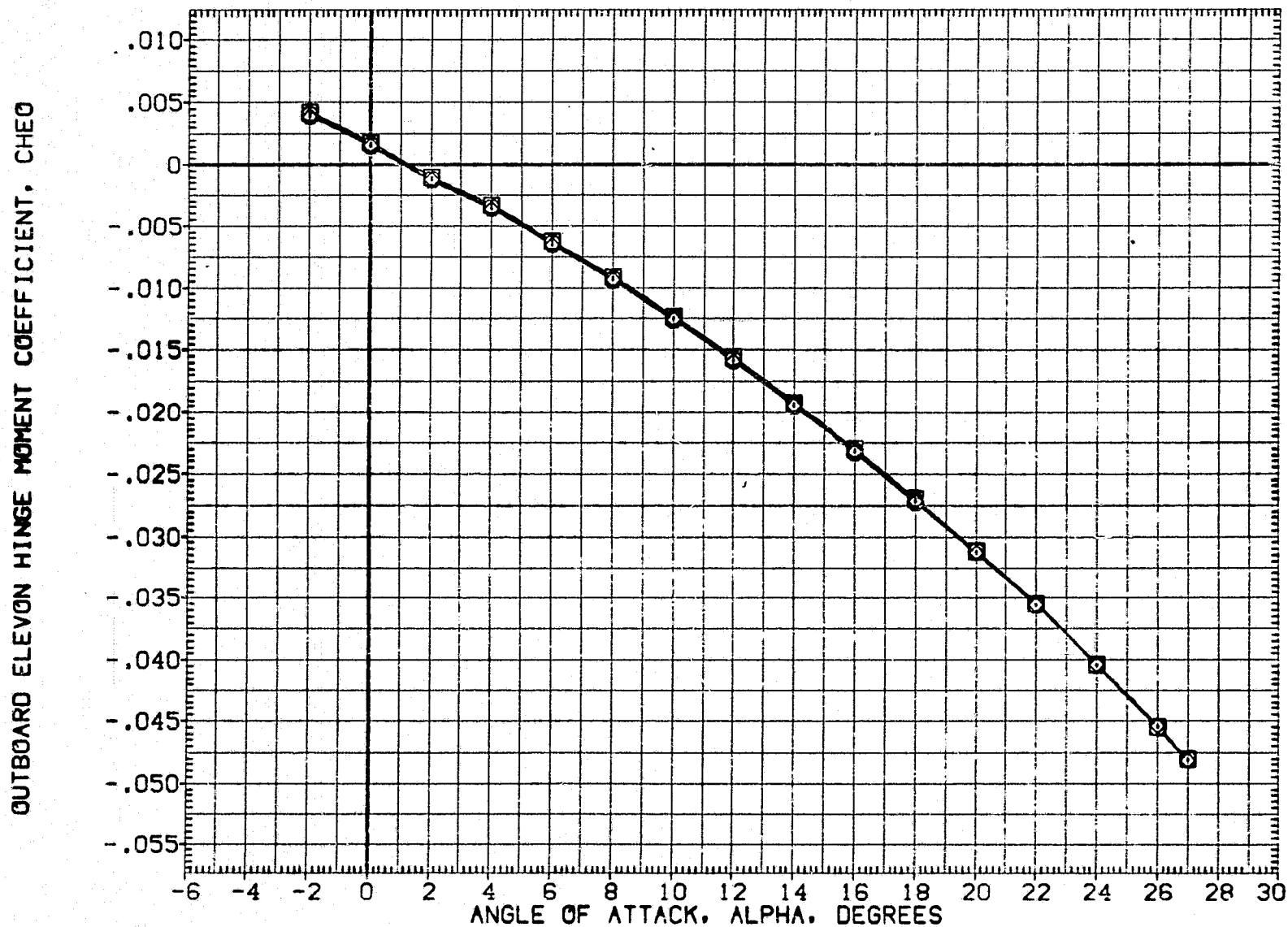


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)

(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV005)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(ATV010)	GA115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(ATV008)	GA115 B26 C9 E43 F8	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

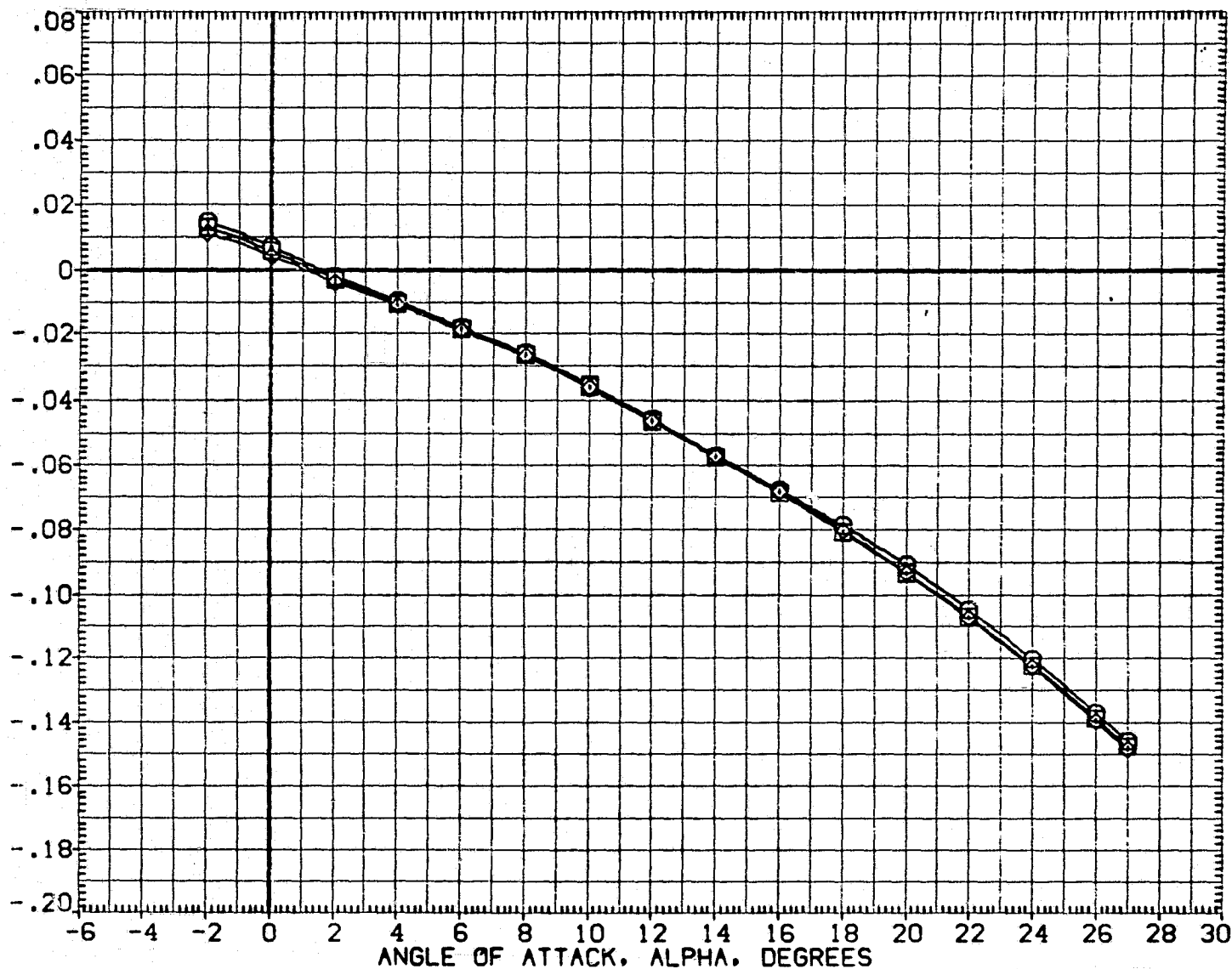


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(B)MACH = 4.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV005)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV010)	□	0A115	B26 C9 E43 F8 M7 N28 R5 V8 W116
(ATV008)	◇	0A115	B26 C9 E43 F8 R5 V8 W116

ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

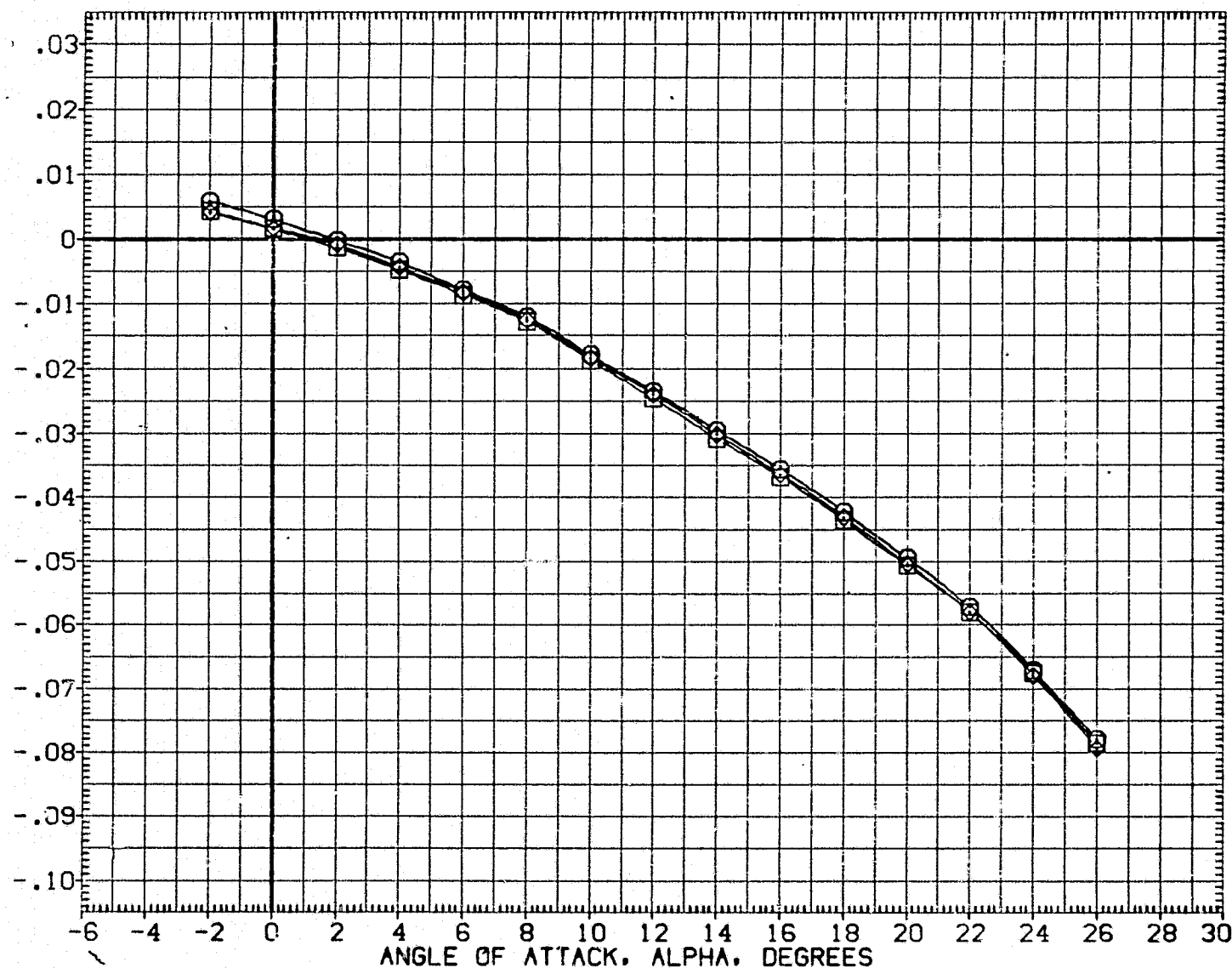


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(ATV010)	0A115 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000	LREF	474.8100	IN.
(ATV038)	0A115 B26 C9 E43 F8 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO



FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV005)	○	0A115	B26	C9	E43	F8	M16	N28	R5	V8	W116
(ATV010)	□	0A115	B26	C9	E43	F8	M7	N28	R5	V8	W116
(ATV008)	◇	0A115	B26	C9	E43	F8			R5	V8	W116

ELV-L0 ELV-L1 ELV-R1 ELV-R0

.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SG.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

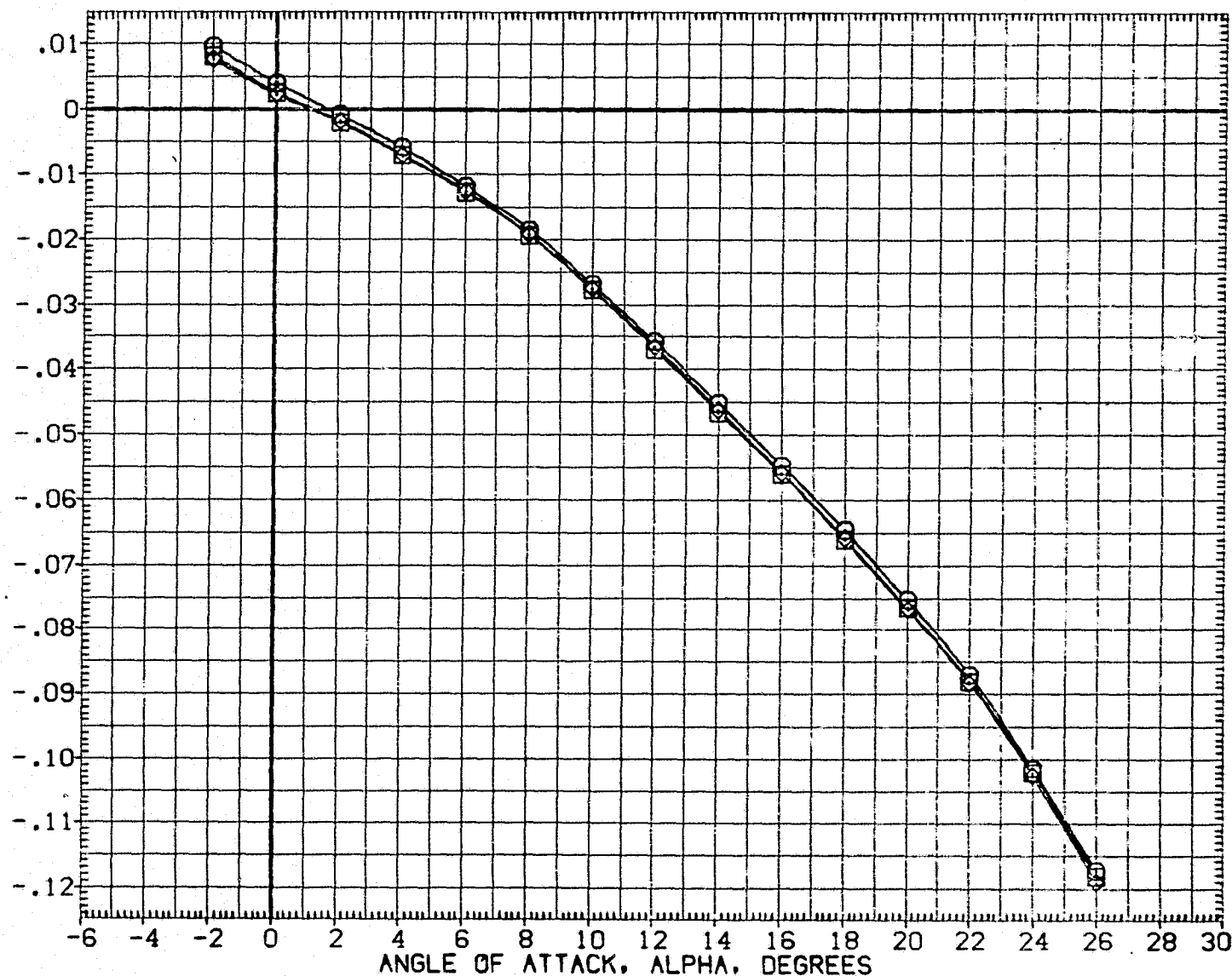


FIG. 4 EFFECT OF OMS PODS (BODY FLAP= 0, SPEED BRAKE= 55)
(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000 SQ.FT.
(BTVO42)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100 IN.
						BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

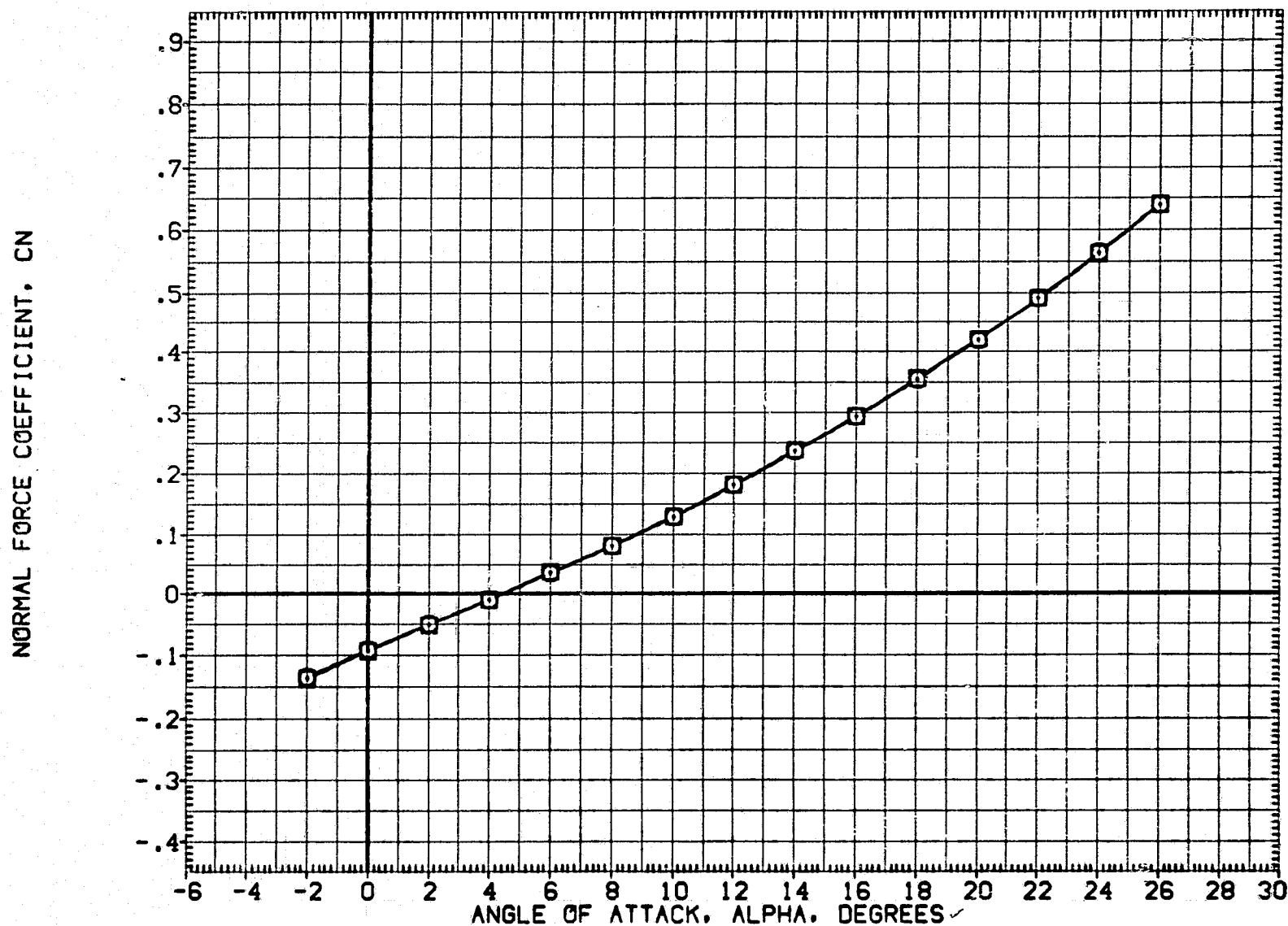


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)

(A)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.).CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000	SG.FT.
(BTVO42)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100	IN.
						BREF	935.6800	IN.
						XMRP	1075.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

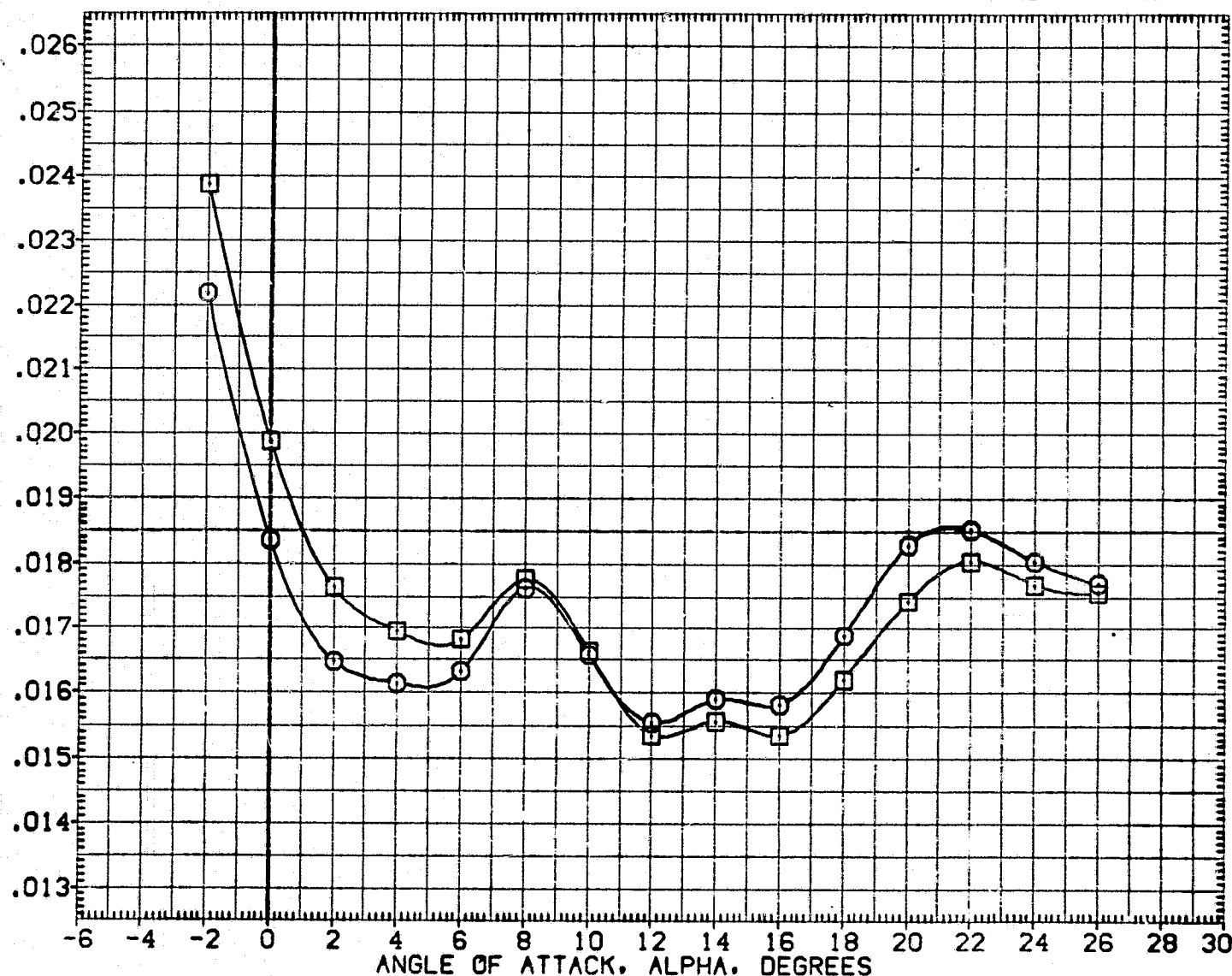


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)
(A)MACH = 5.00

5-2

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO27) □	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000	SQ.FT.
(BTVO42) □	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100	IN.
						BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.) CLMAFT

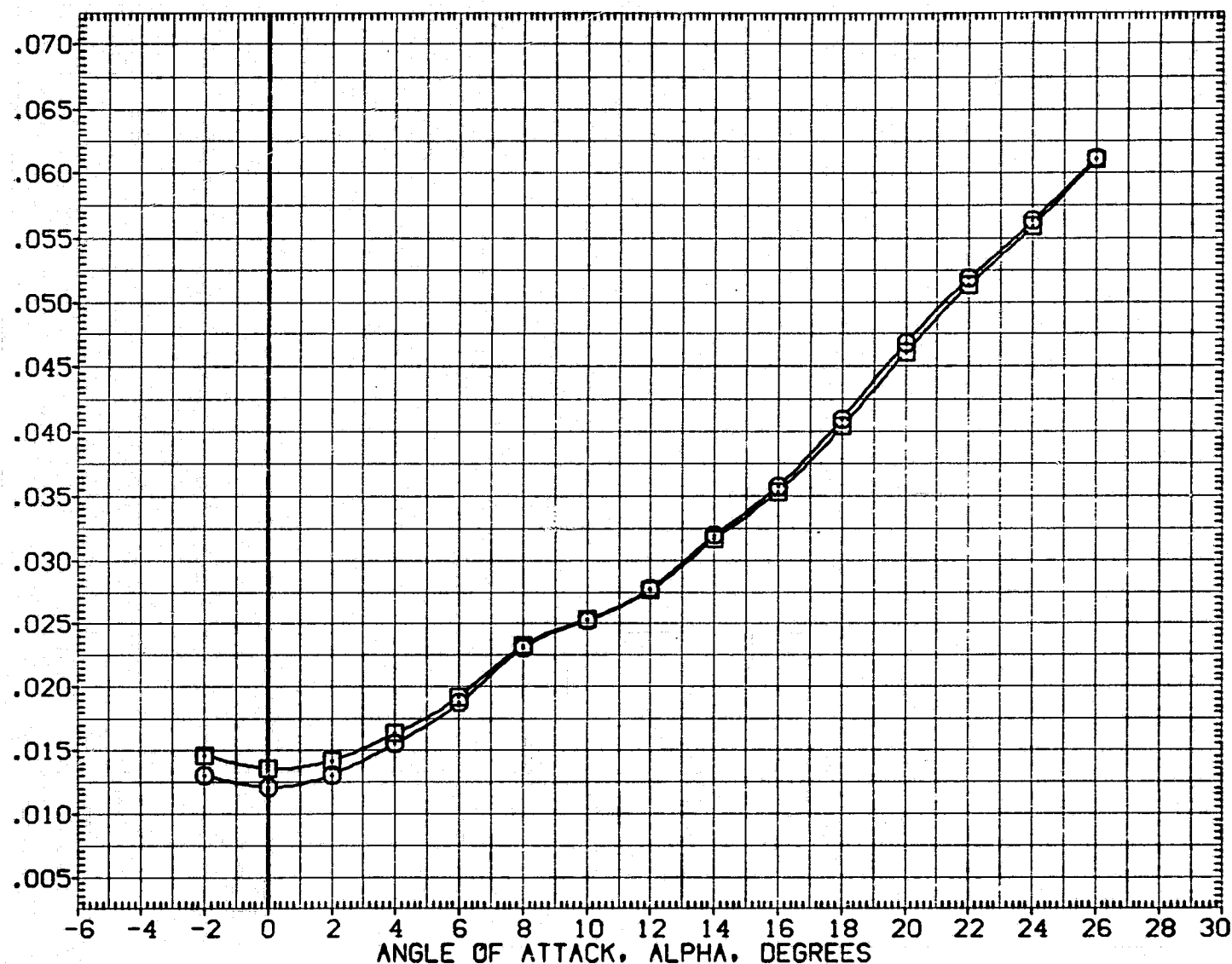


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)
(A)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.). CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BTVD27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000 SQ.FT.
(BTVD42)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100 IN.
						BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

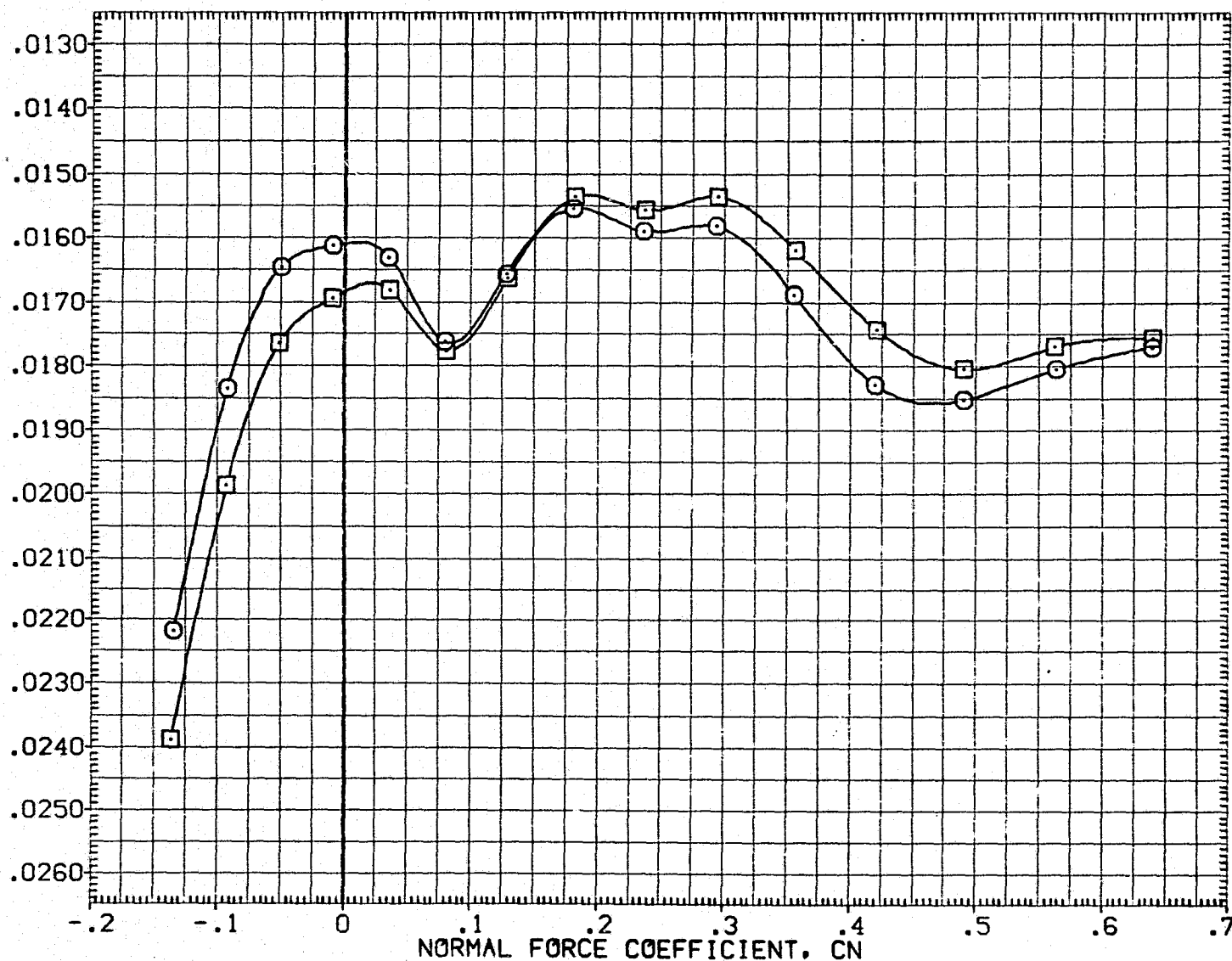


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)
(A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION ELV-L0 ELV-L1 ELV-R1 ELV-R0 REFERENCE INFORMATION

(BTVO27)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000	50.FT.
(BTVO42)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100	IN.
								BREF	936.6800	IN.
								XMRP	1076.6800	IN.X0
								YMRP	.0000	IN.Y0
								ZMRP	375.0000	IN.Z0
								SCALE	.0150	

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.). CLMFT

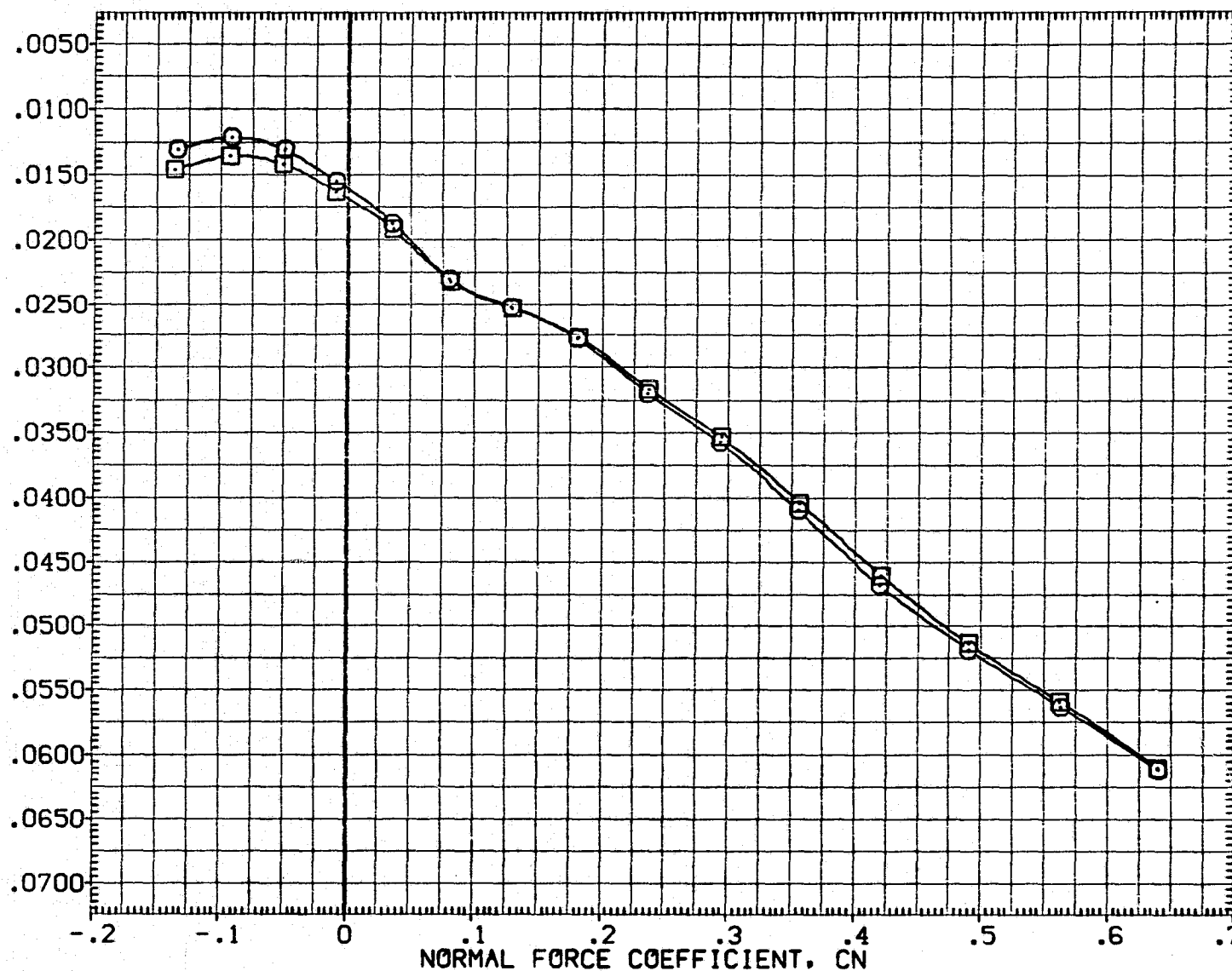


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)

(A)MACH = 5.00

CENTER OF PRESSURE LOCATION-AS A FRACTION OF BODY LENGTH. XCP/L

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTV027)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000	50.FT.
(BTV042)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100	IN.
						BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

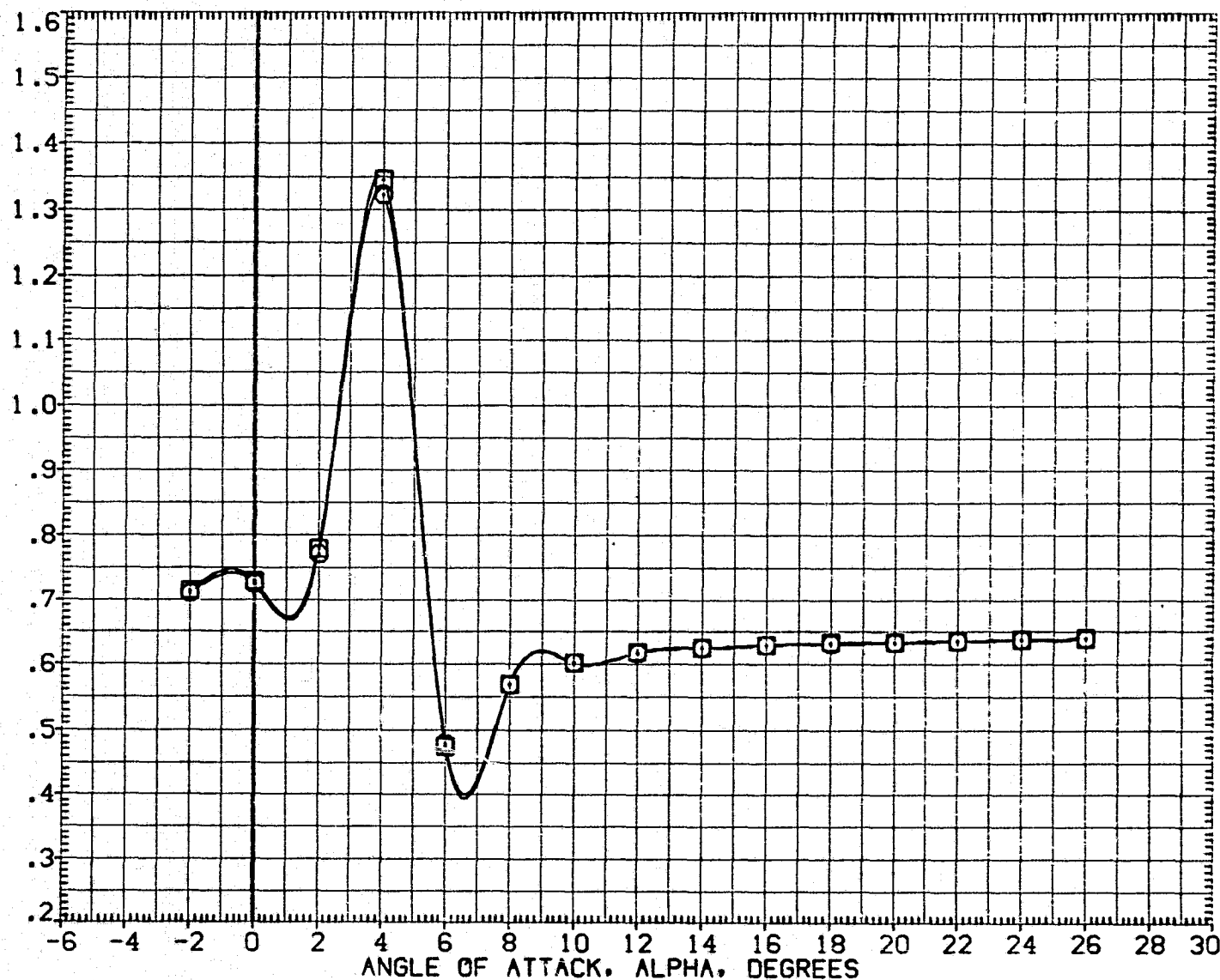


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)
(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO42)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24

ELV-LO	ELV-LI	ELV-RI	ELV-RO
-20.000	-20.000	-20.000	-20.000
-20.000	-20.000	-20.000	-20.000

REFERENCE INFORMATION	
SREF	2690.0000 SQ.FT.
LREF	474.8100 IN.
BREF	936.6800 IN.
XMRP	1076.6800 IN.X0
YMRP	.0000 IN.Y0
ZMRP	375.0000 IN.Z0
SCALE	.0150

AXIAL FORCE COEFFICIENT, C_A

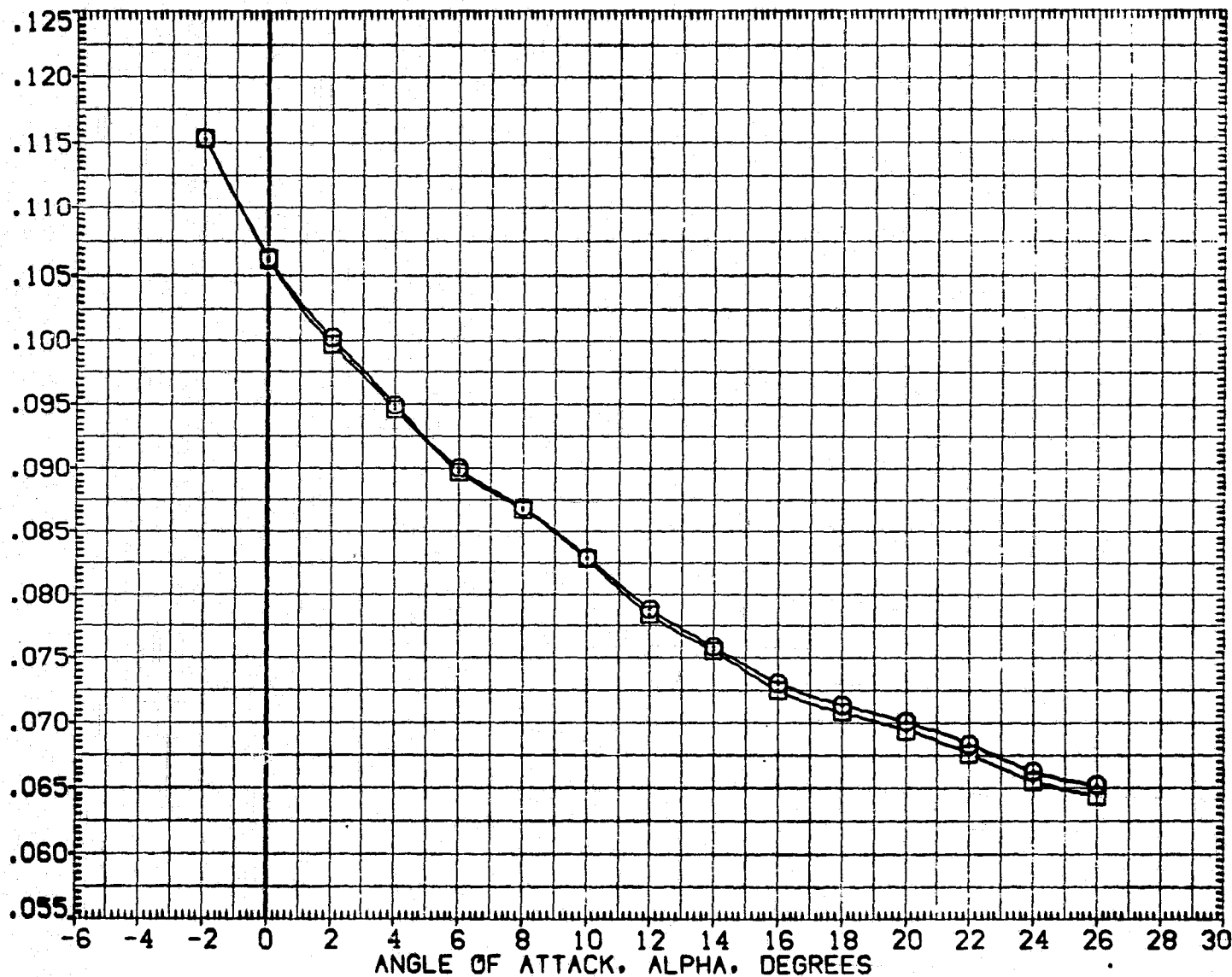


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)
(A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVD27) ☐ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
 (BTVD42) ☐ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24

ELV-L0 ELV-L1 ELV-R1 ELV-R0
 -20.000 -20.000 -20.000 -20.000
 -20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1076.6800 IN.X0
 YMRP .0000 IN.Y0
 ZMRP 375.0000 IN.Z0
 SCALE .0150

FOREBODY AXIAL FORCE COEFFICIENT, CAF

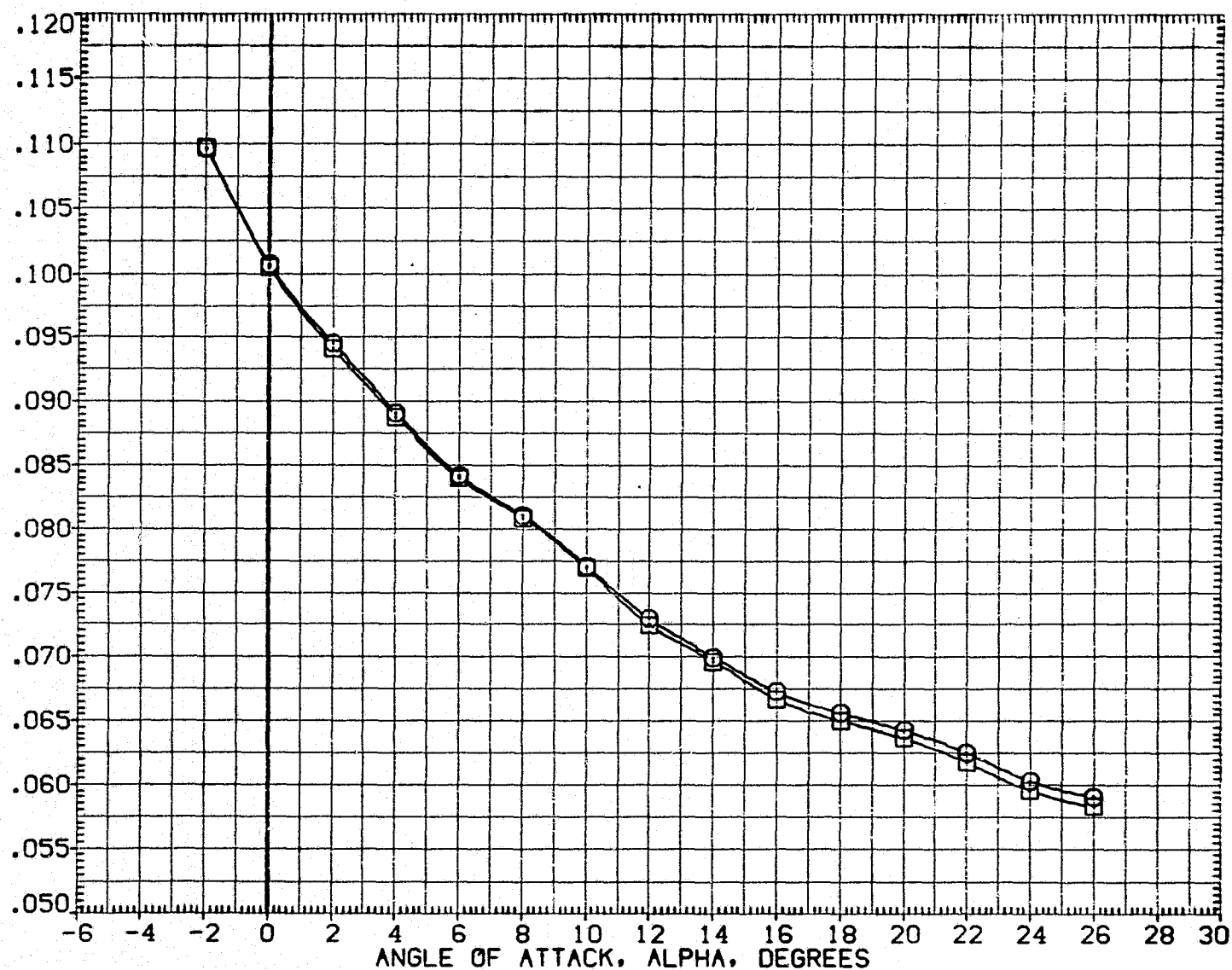


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)

(A)MACH = 5.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION												ELV-LO				ELV-LI				ELV-RI				ELV-RO				REFERENCE INFORMATION		
(BTVO27)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116														SREF	2690.0000	50.FT.					
(BTVO42)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116	N24												LREF	474.8100	IN.						
																								BREF	936.6800	IN.						
																								XMRP	1076.6800	IN.X0						
																								YMRP	.0000	IN.Y0						
																								ZMRP	375.0000	IN.Z0						
																								SCALE	.0150							

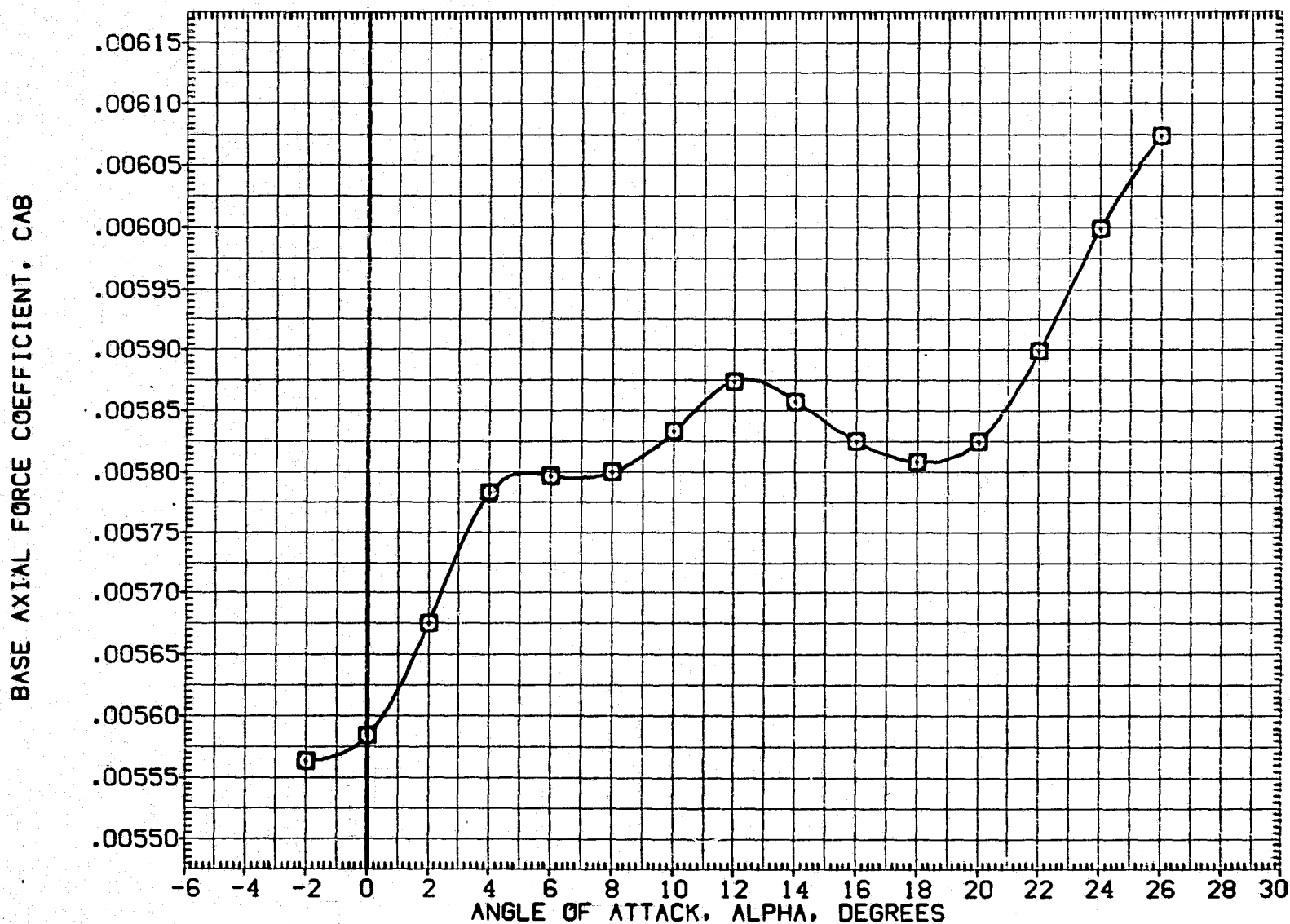


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)

(A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO27) \square 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO42) \square 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24

ELV-L0 ELV-L1 ELV-R1 ELV-R0
-20.000 -20.000 -20.000 -20.000
-20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION
SREF 2690.0000 50.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

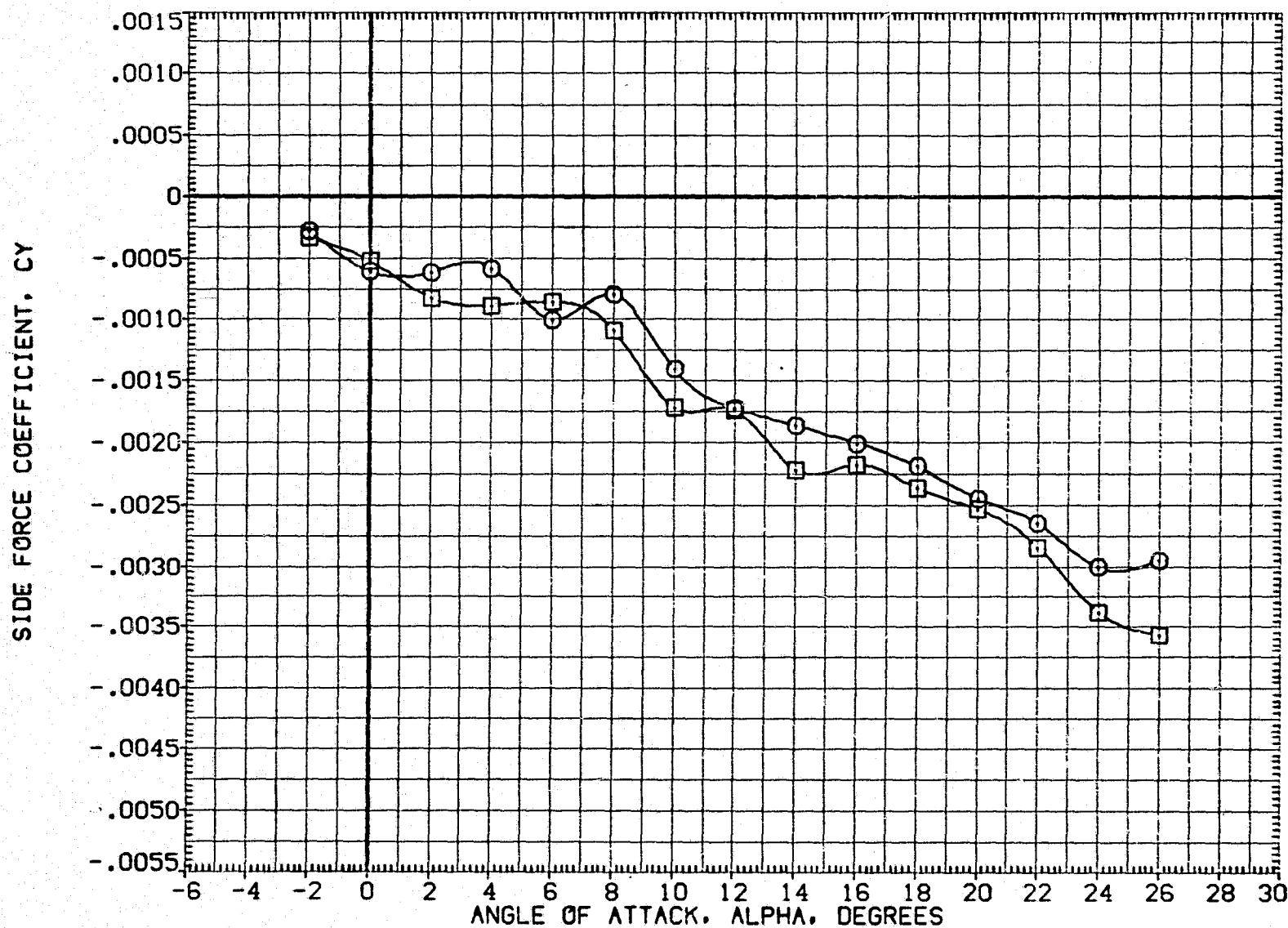


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BTV027)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000 SQ.FT.
(BTV042)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100 IN.
						BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

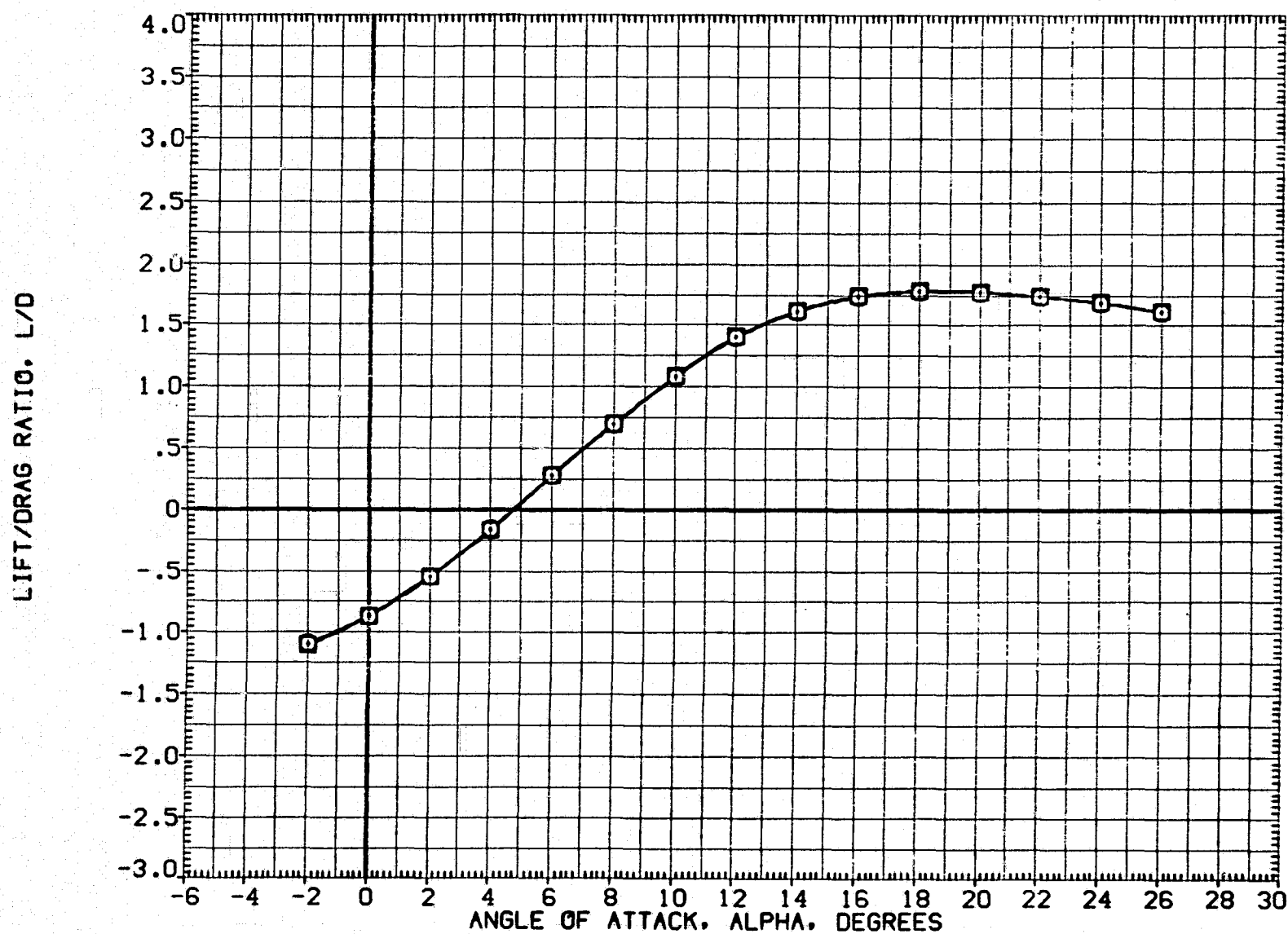


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)

(A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTV027) ☐ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV042) ☐ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24

ELV-L0 ELV-L1 ELV-R1 ELV-R0
-20.000 -20.000 -20.000 -20.000
-20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

LIFT COEFFICIENT, CL

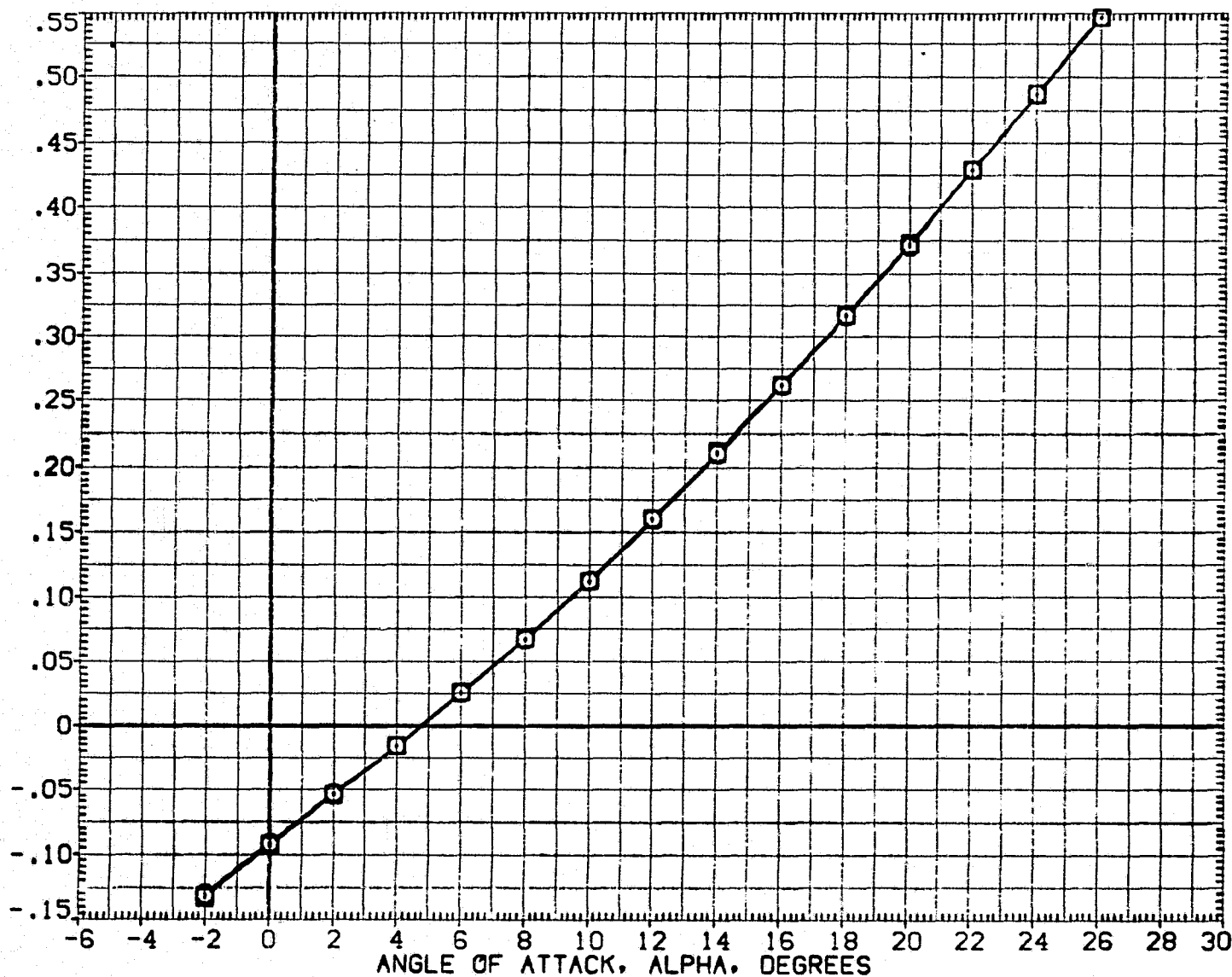


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)
(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(RTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000 SQ.FT.
(RTV042)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100 IN.
						BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

DRAG COEFFICIENT, CD

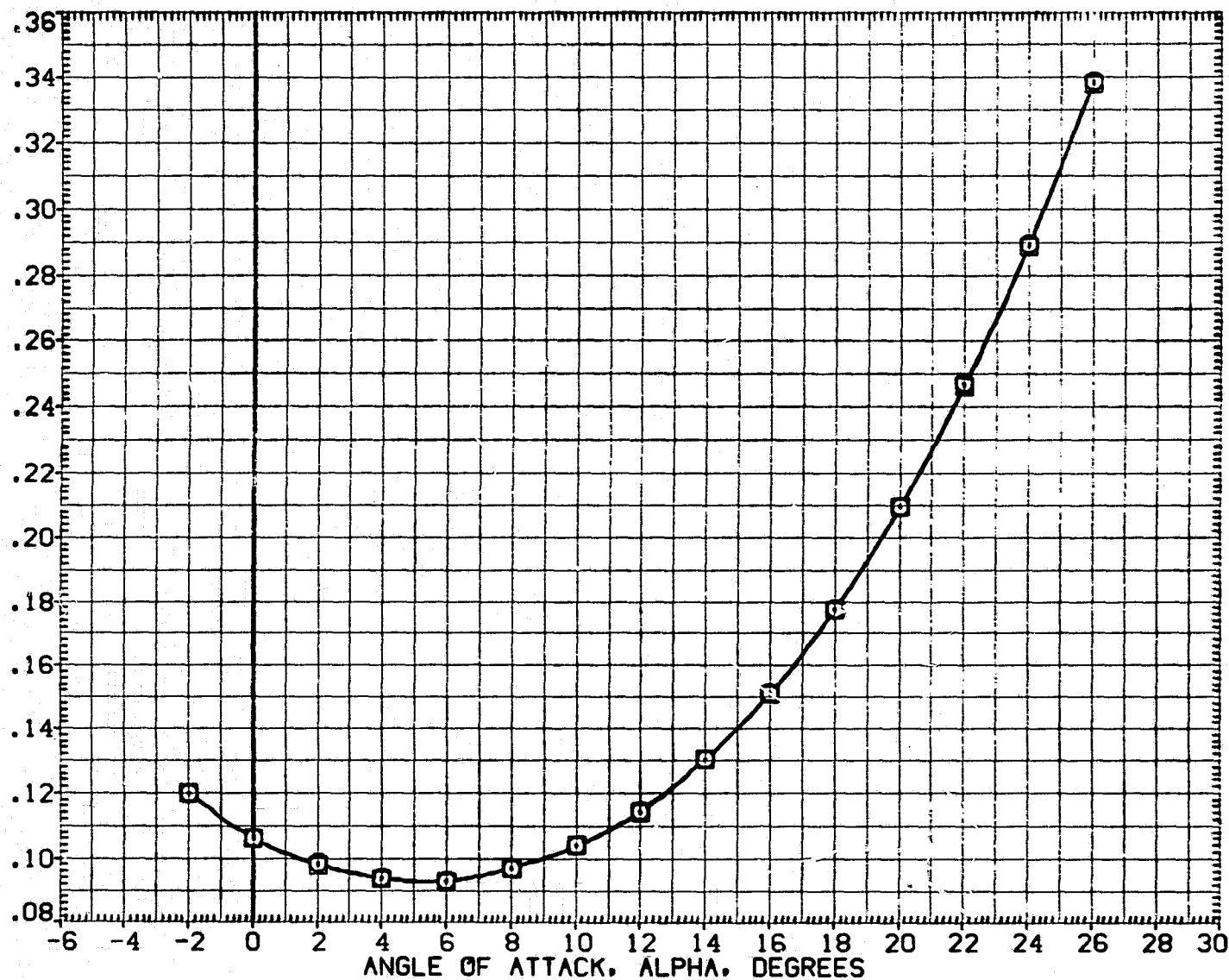


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)
(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000	50.FT.
(RTV042)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100	IN.
						BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

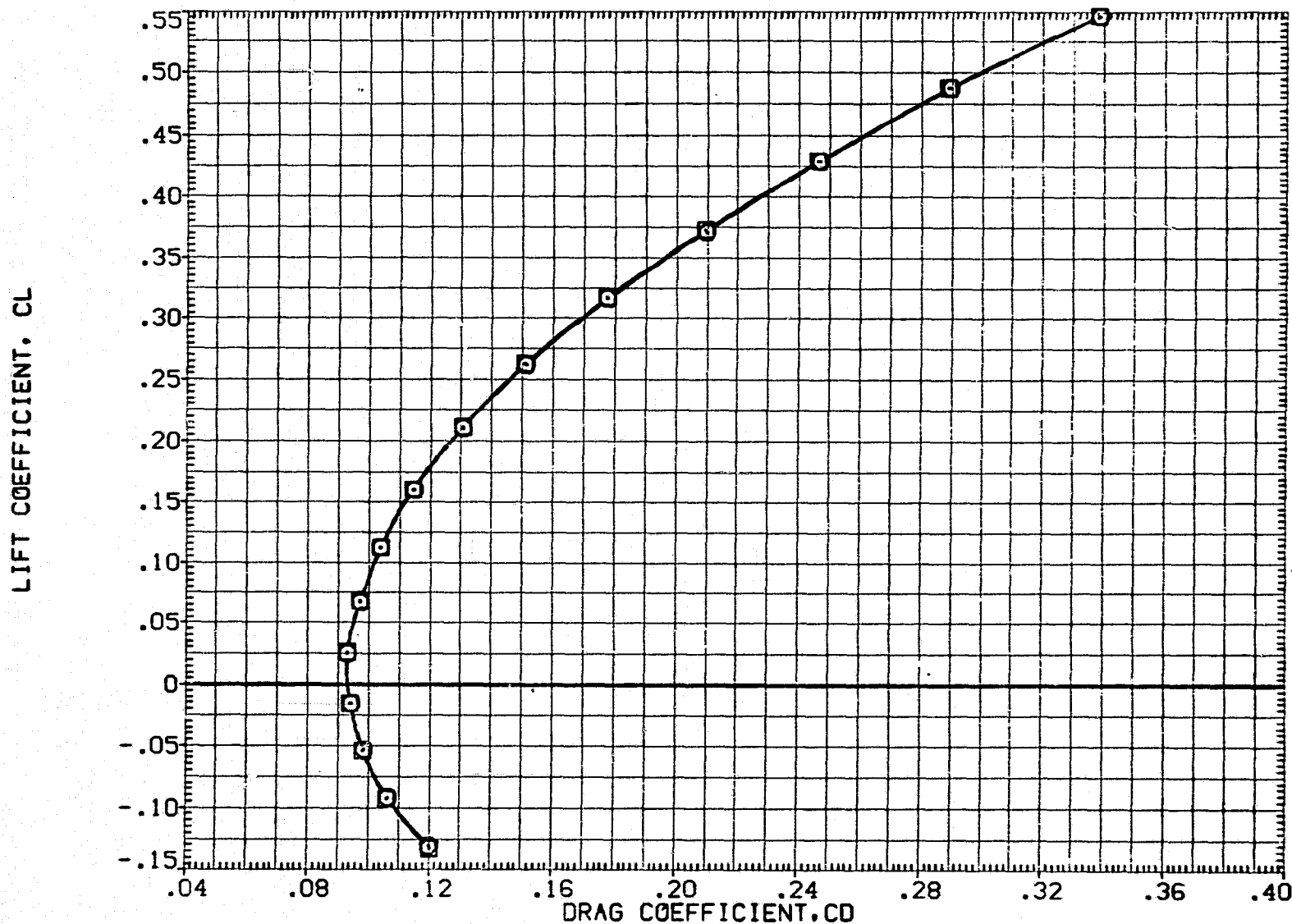


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000	50. FT.
(ATV042)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100	IN.
						BREF	936.6800	IN.
						XMRP	1076.5800	IN. X0
						YMRP	.0000	IN. Y0
						ZMRP	375.0000	IN. Z0
						SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

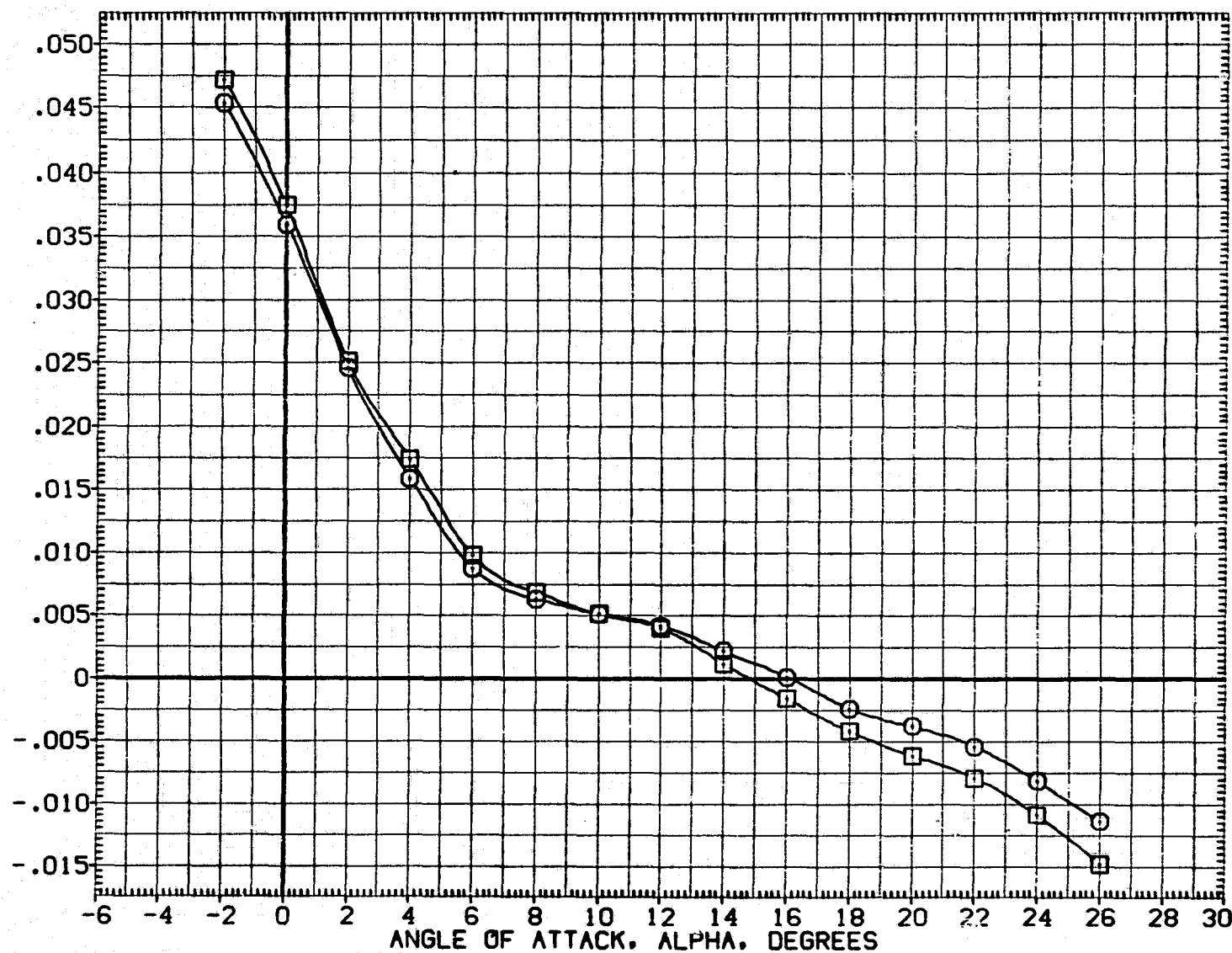


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)

(A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV027) 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV042) 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24

ELV-L0 ELV-L1 ELV-R1 ELV-R0
-20.000 -20.000 -20.000 -20.000
-20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

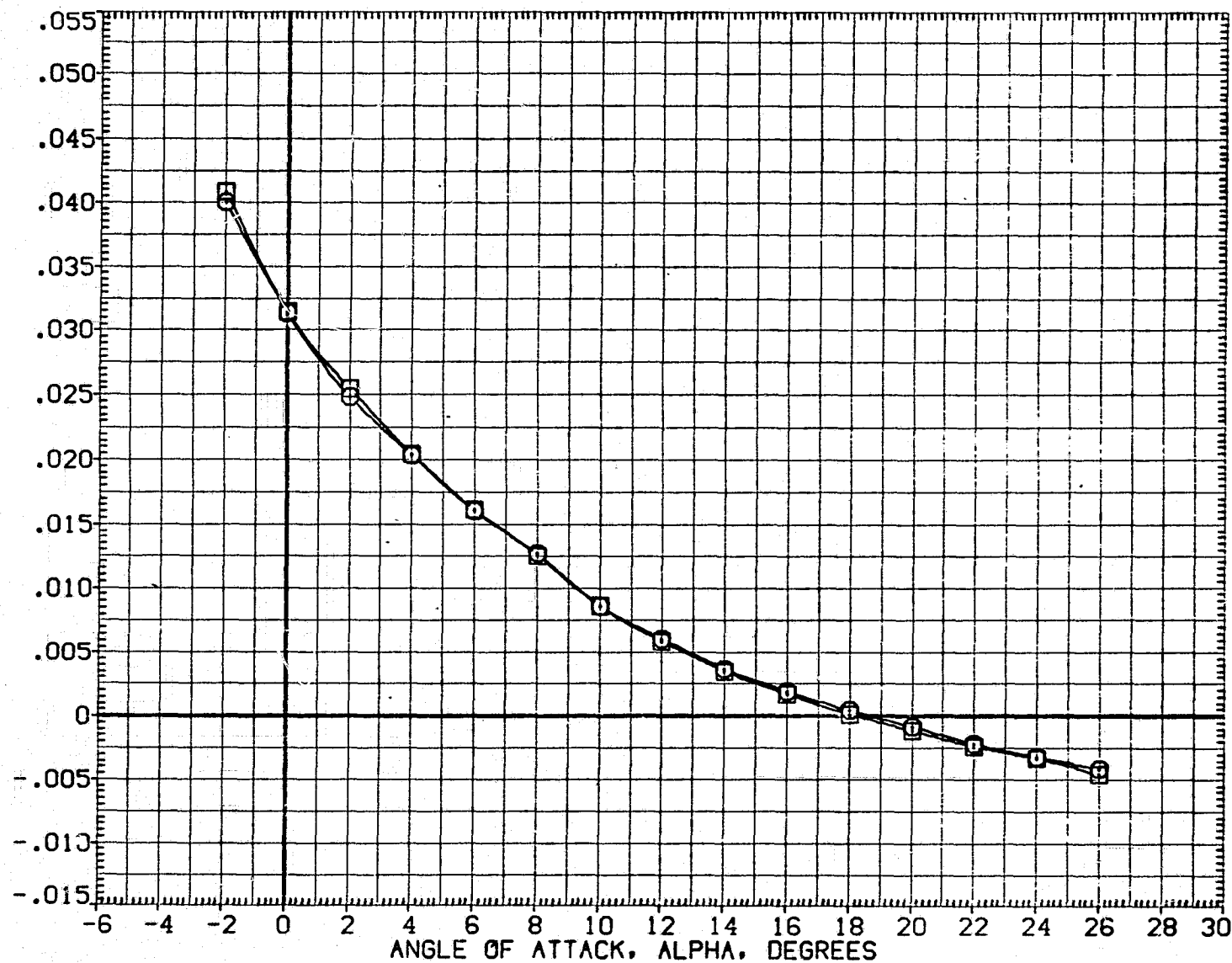


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
[ATV027]	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000 SQ.FT.
[ATV042]	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 N24	-20.000	-20.000	-20.000	-20.000	LREF	474.8100 IN.
						BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

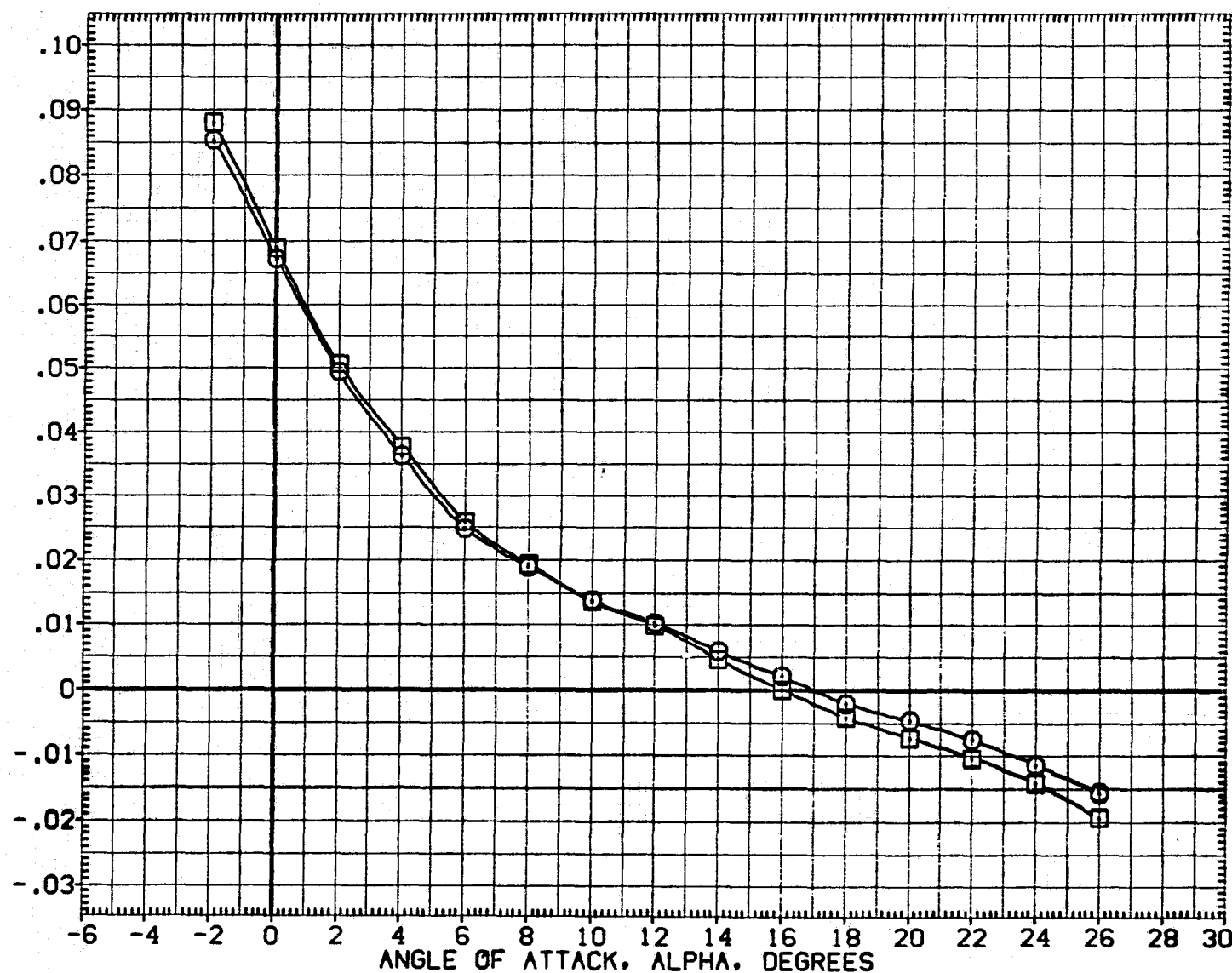


FIG. 5 EFFECT OF SEALED ELEVON GAP (BODY FLAP= 0, SPEED BRAKE =85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000 SQ.FT.
(BTVC44)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEAL	-20.000	-20.000	-20.000	-20.000	LREF	474.8100 IN.
						BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

NORMAL FORCE COEFFICIENT, CN

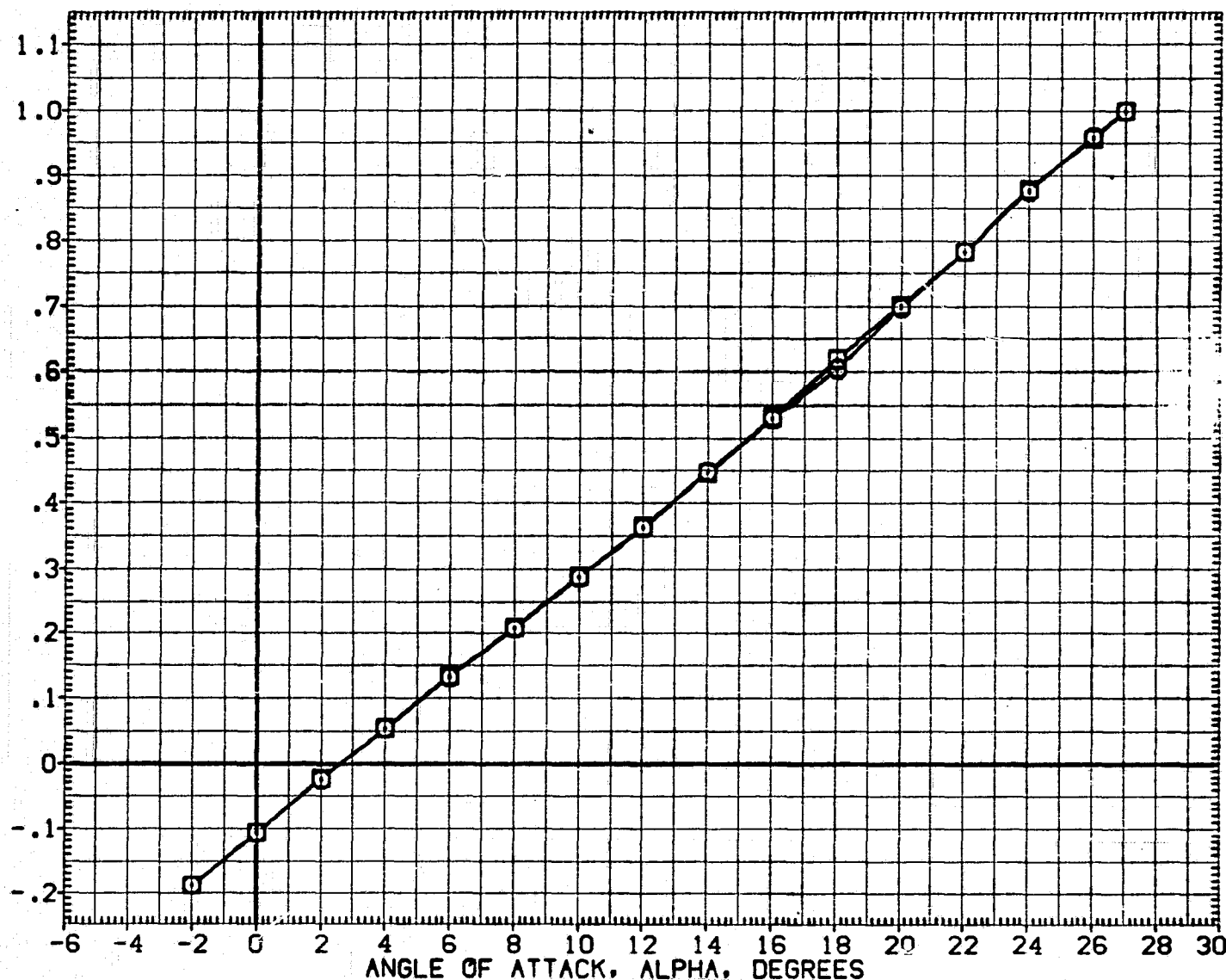


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)
(A) MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVD27) ☐ 0A115 826 C9 E43 F8 M16 N28 R5 V8 W116
(BTVD44) ☐ 0A115 826 C9 E43 F8 M16 N28 R5 V8 W116 SEAL

ELV-L0 ELV-L1 ELV-R1 ELV-R0
-20.000 -20.000 -20.000 -20.000
-20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), CLMFWD

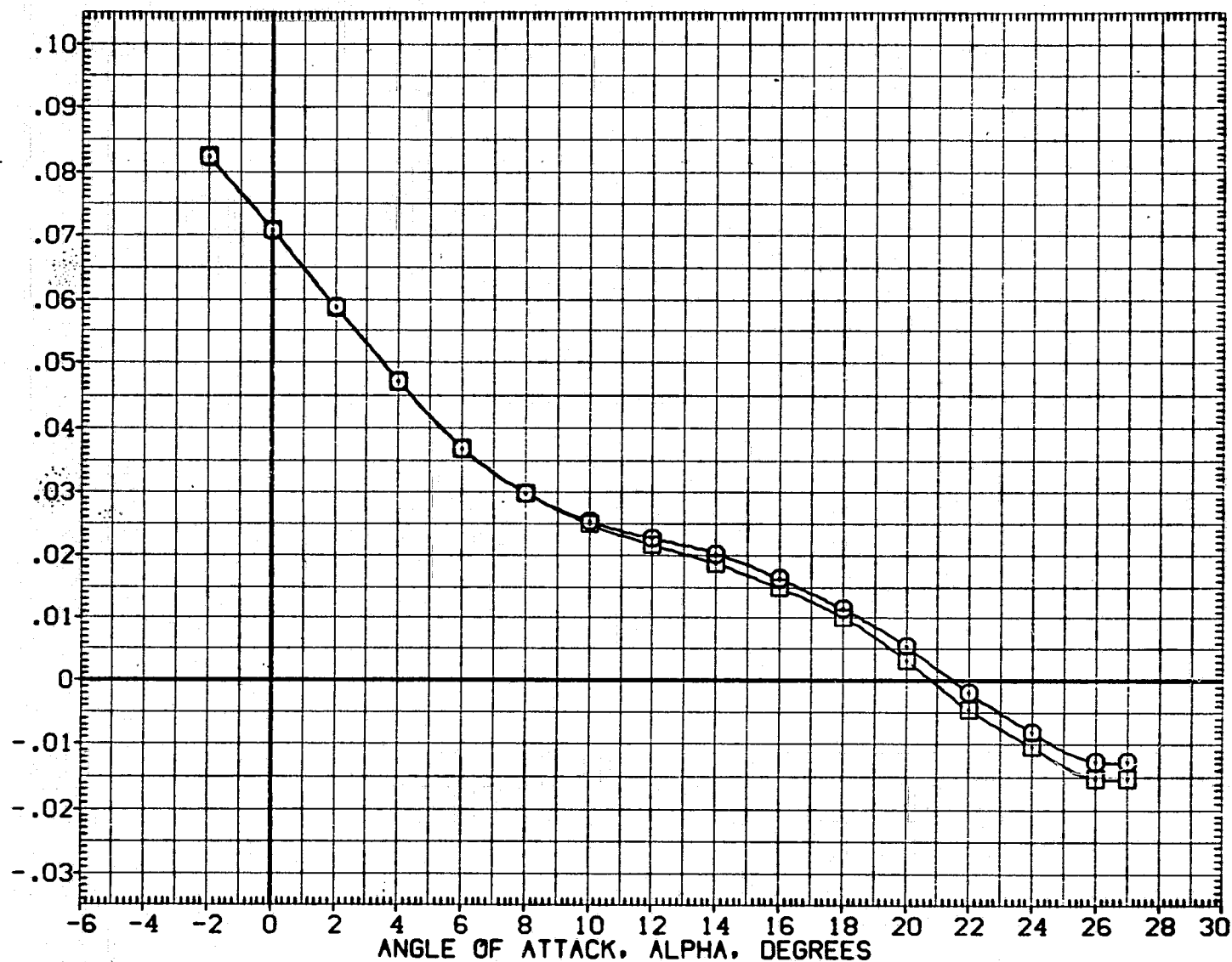


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000	SQ.FT.
(BTVO44)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEAL	-20.000	-20.000	-20.000	-20.000	LREF	474.8100	IN.
						BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.). CLMFT

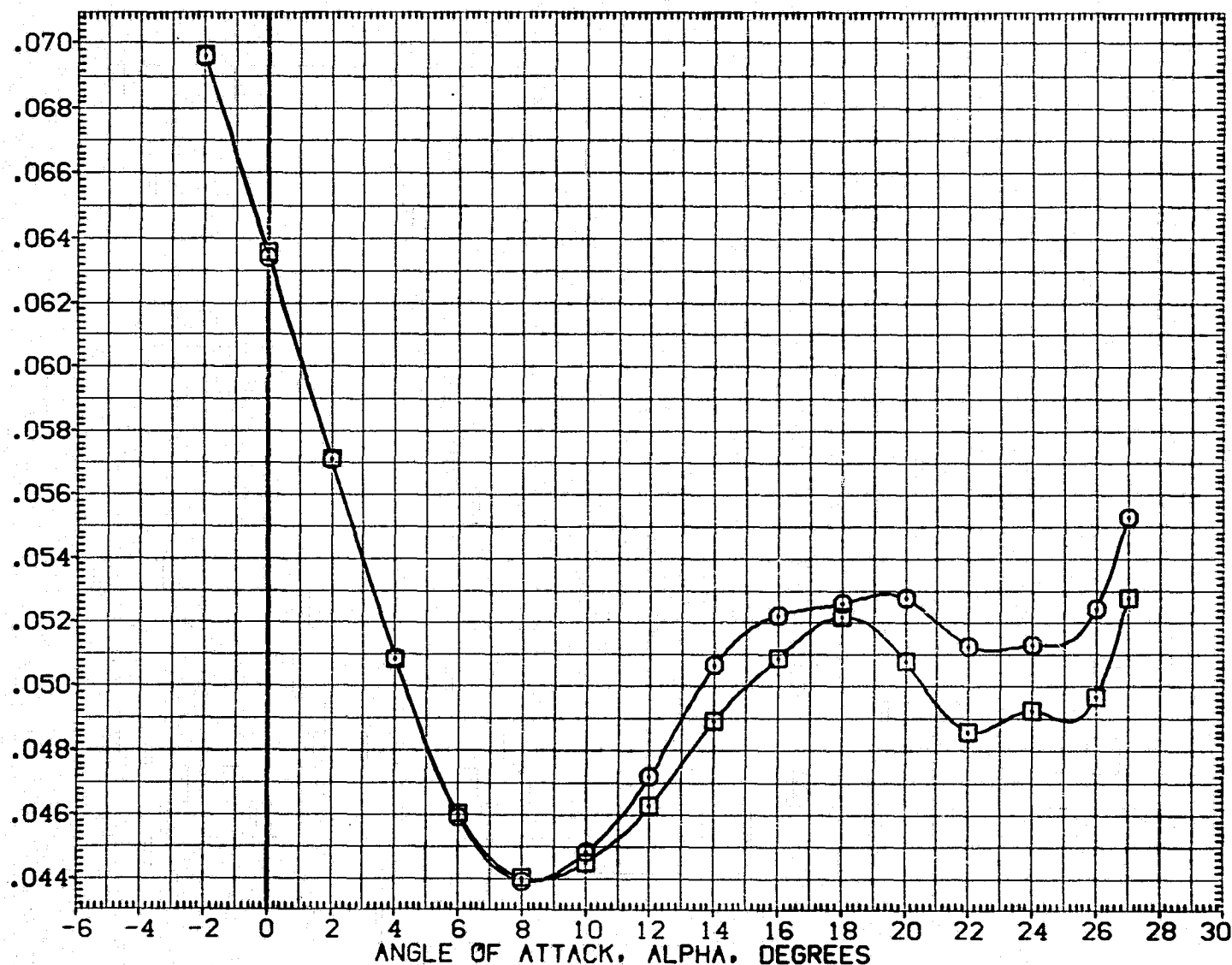


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.).CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTVD27)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVD44)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEAL

ELV-L0	ELV-L1	ELV-R1	ELV-R0
-20.000	-20.000	-20.000	-20.000
-20.000	-20.000	-20.000	-20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

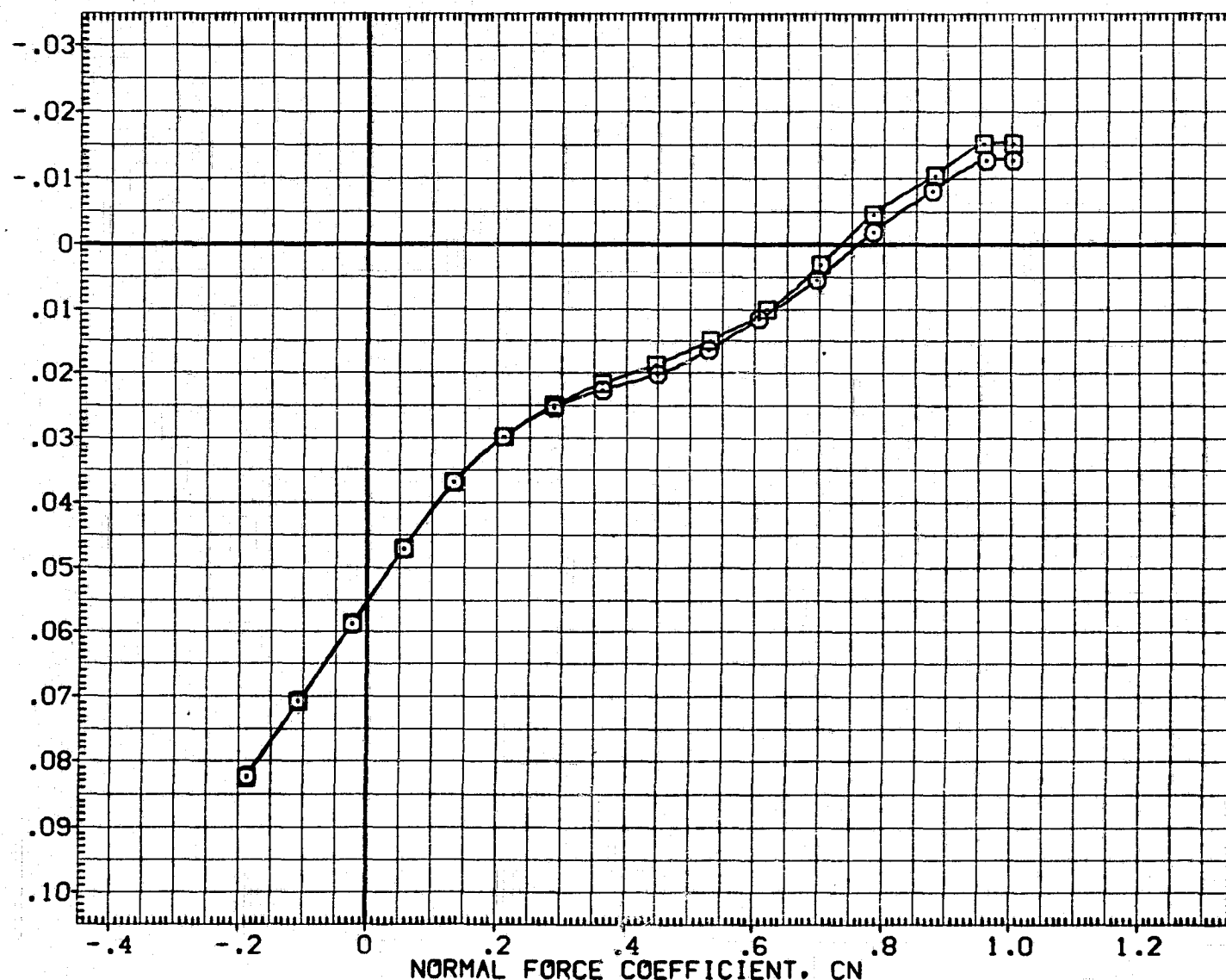


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.). CLMFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BT027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000 SQ.FT.
(BT044)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 SEAL	-20.000	-20.000	-20.000	-20.000	LREF	474.8100 IN.
						BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

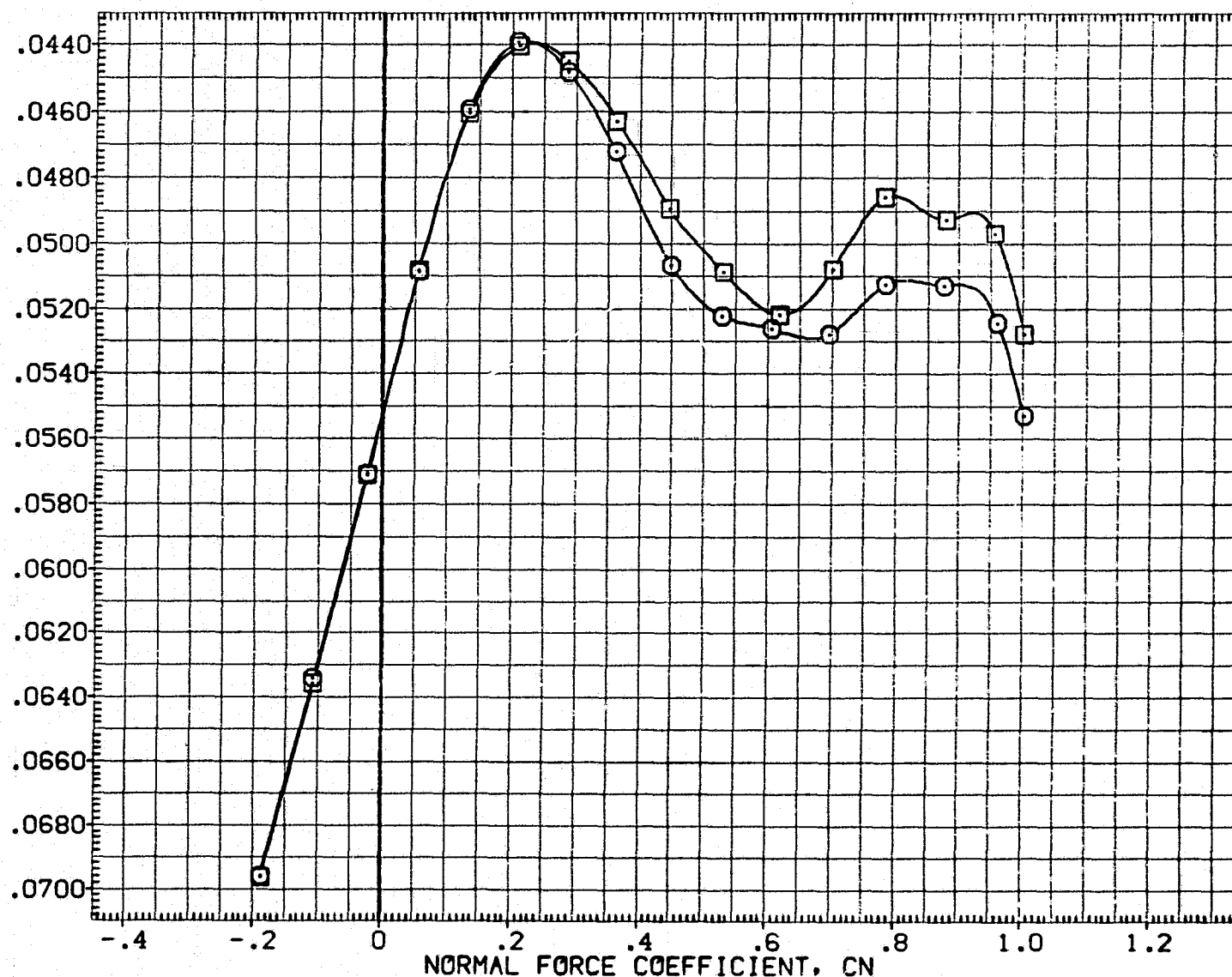


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000 SQ.FT.
(BTVO44)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 SEAL	-20.000	-20.000	-20.000	-20.000	LREF	474.8100 IN.
						BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

CENTER OF PRESSURE LOCATION-AS A FRACTION OF BODY LENGTH.

XCP/L

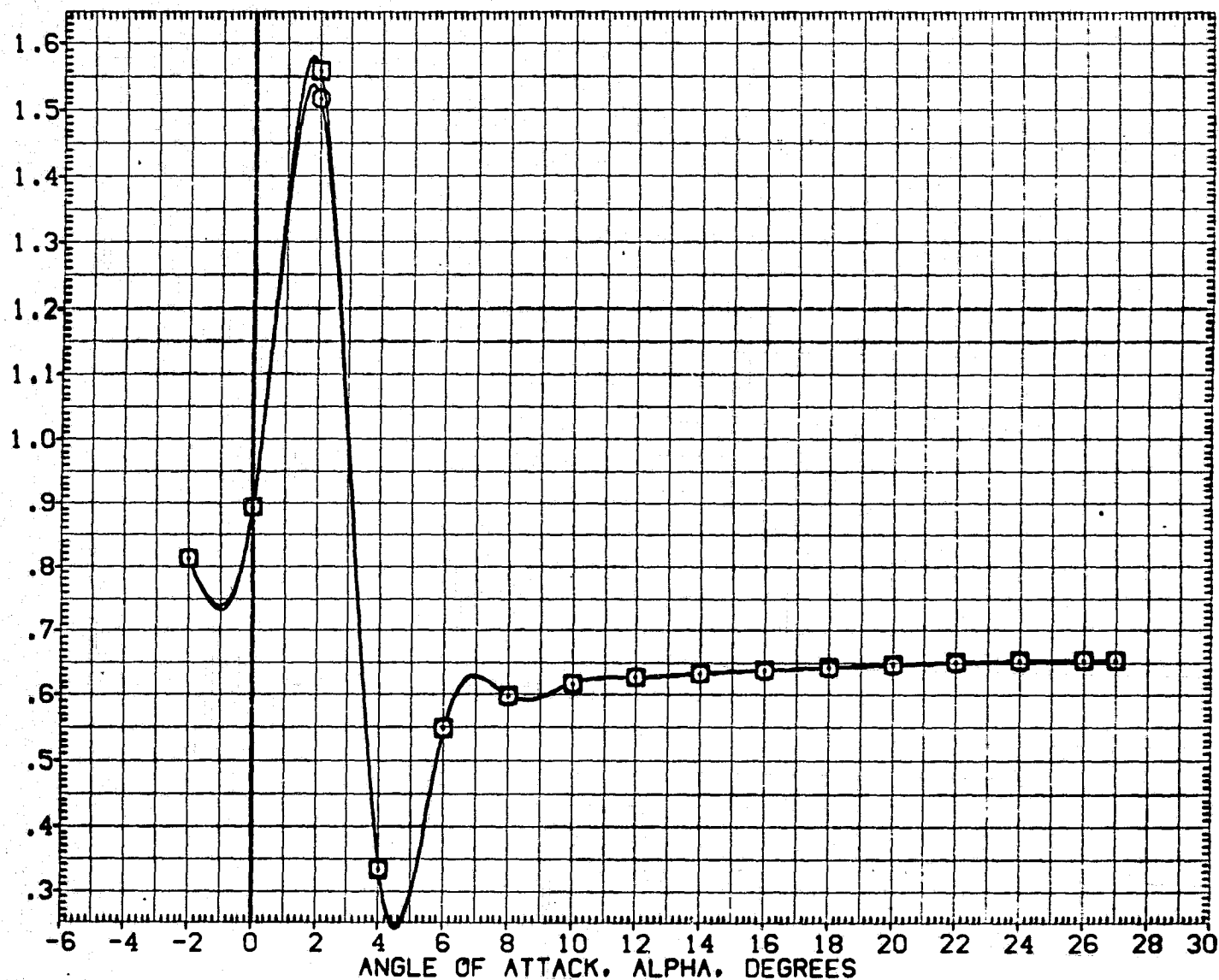


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO27) ☐ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO44) ☐ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 SEAL

ELV-L0 ELV-L1 ELV-R1 ELV-R0
-20.000 -20.000 -20.000 -20.000
-20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

AXIAL FORCE COEFFICIENT, CA

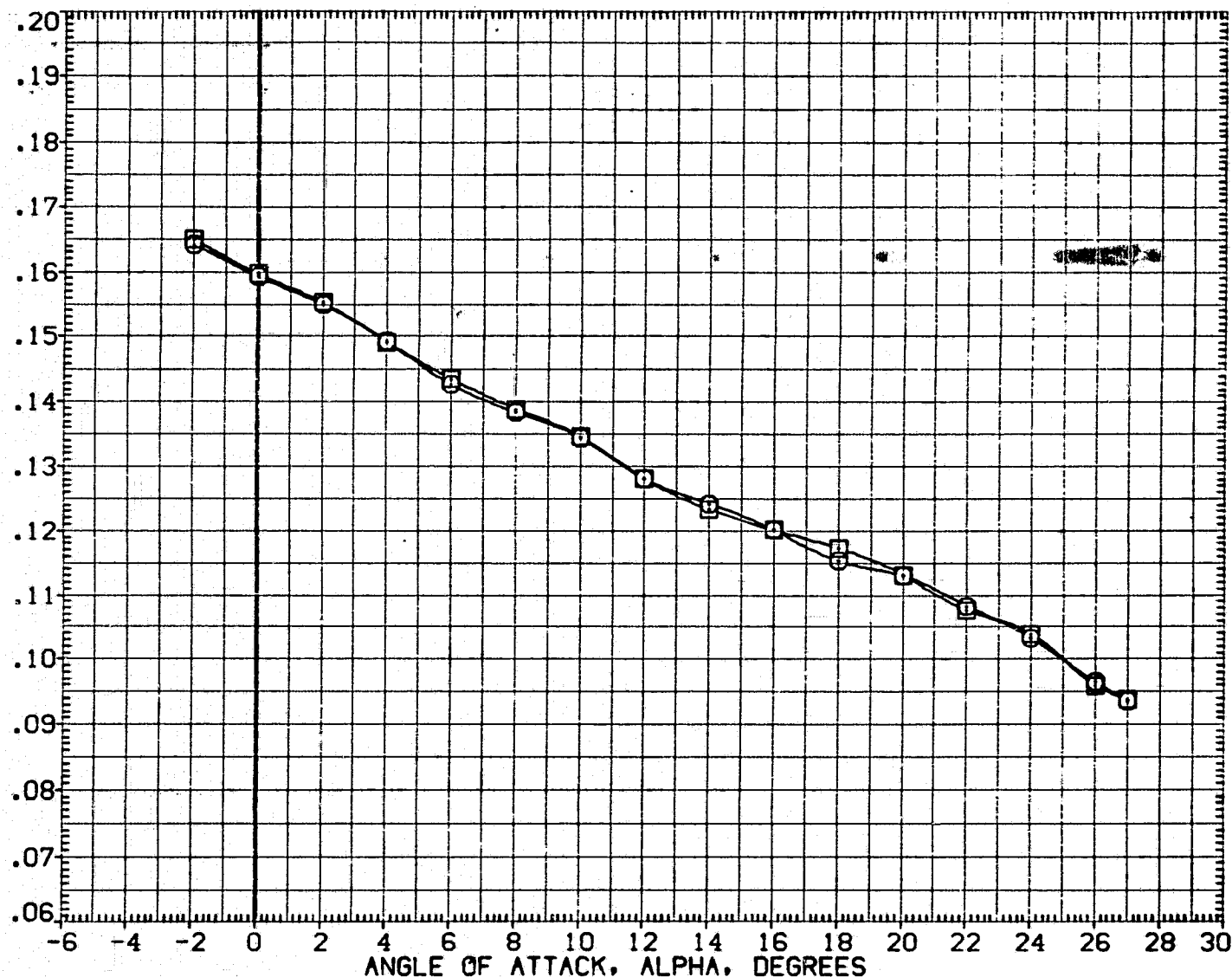


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000	50.FT.
(BTV044)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 SEAL	-20.000	-20.000	-20.000	-20.000	LREF	474.8100	IN.
						BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

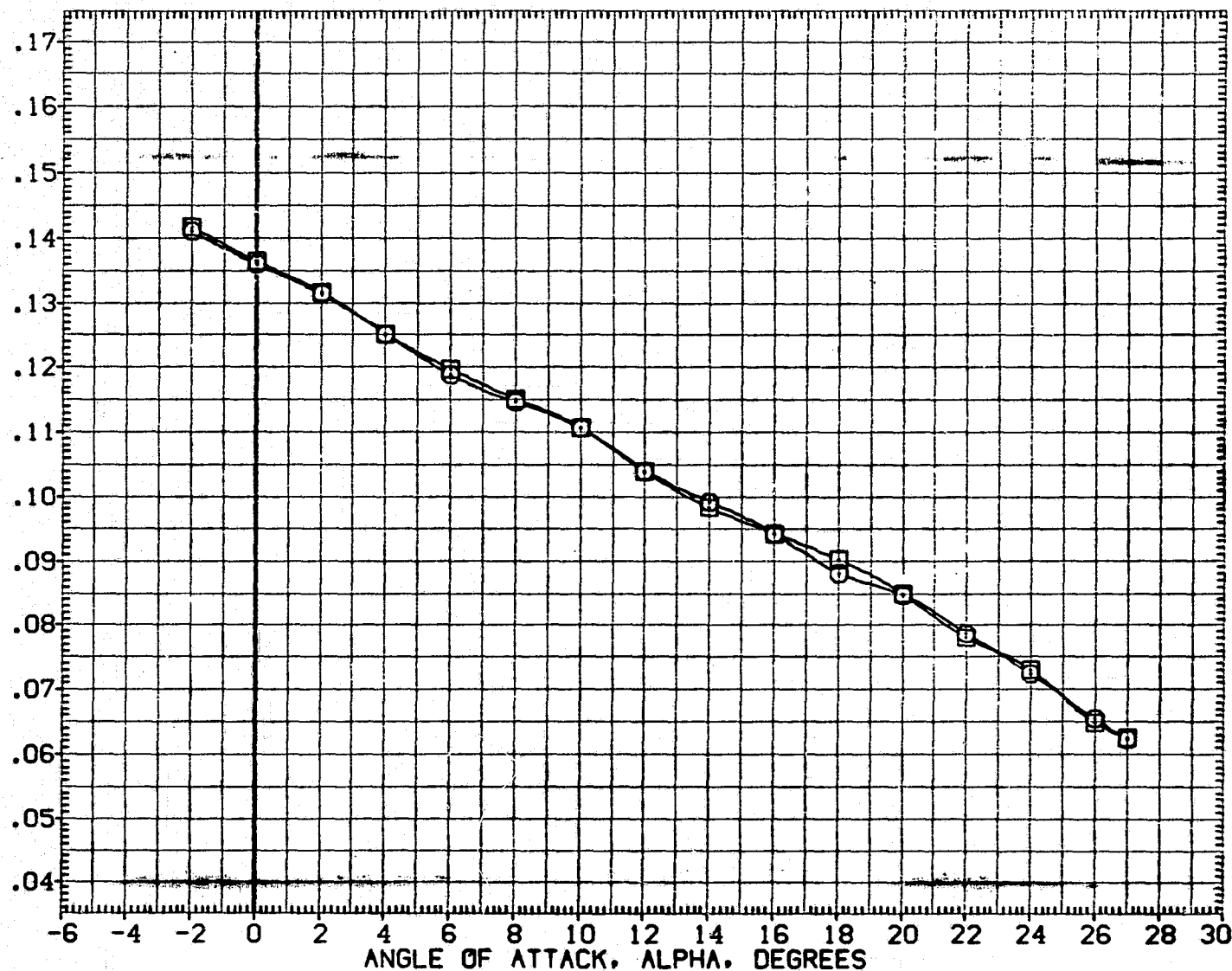


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000 SQ.FT.
(BTV044)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEAL	-20.000	-20.000	-20.000	-20.000	LREF	474.8100 IN.
						BREF	936.6800 IN.
						XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

BASE AXIAL FORCE COEFFICIENT, CAB

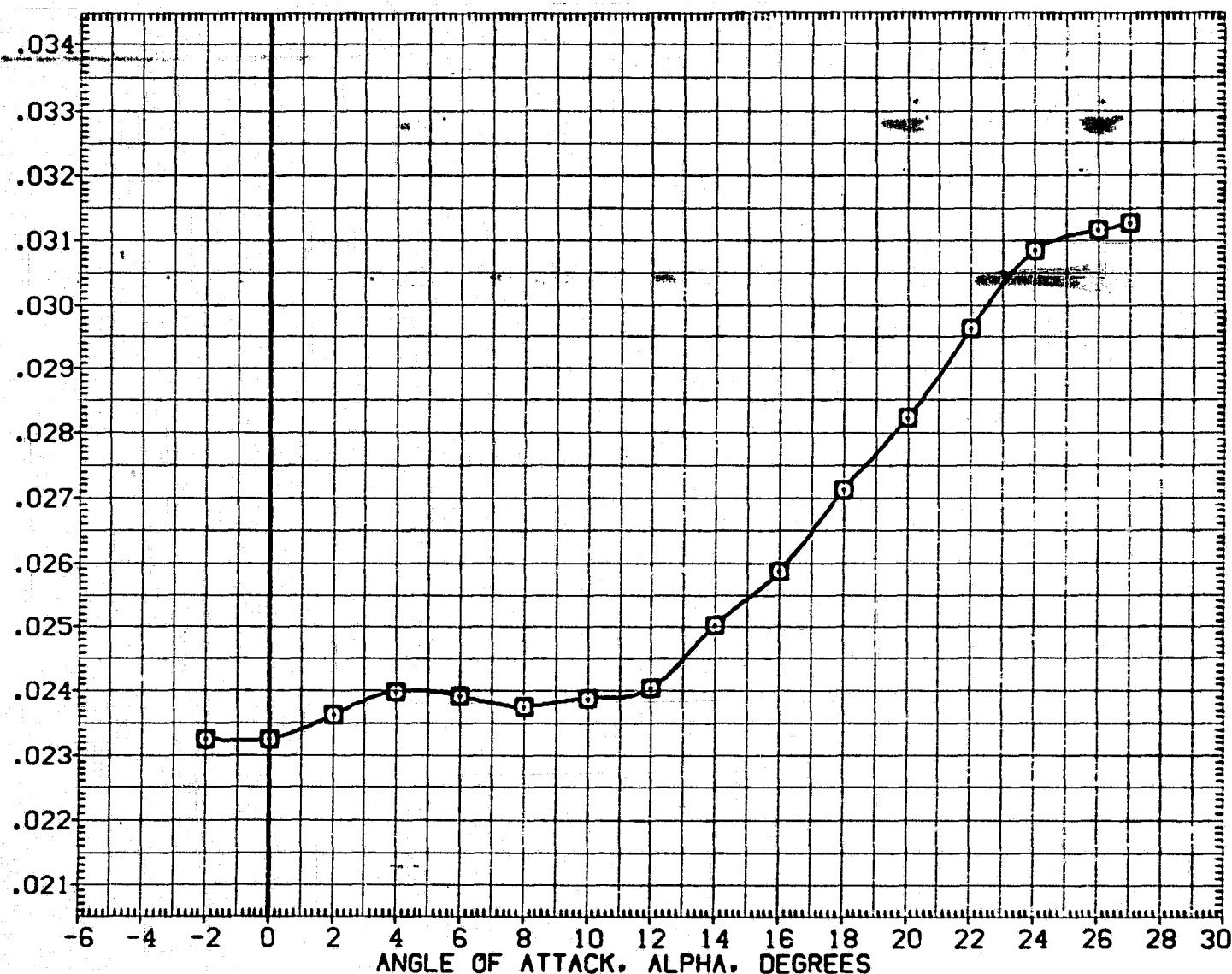




FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BTV027)  0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116
 (BTV044)  0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 SEAL

ELV-L0 ELV-L1 ELV-R1 ELV-R0
 -20.000 -20.000 -20.000 -20.000
 -20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1076.6800 IN.X0
 YMRP .0000 IN.Y0
 ZMRP 375.0000 IN.Z0
 SCALE .0150

SIDE FORCE COEFFICIENT, CY

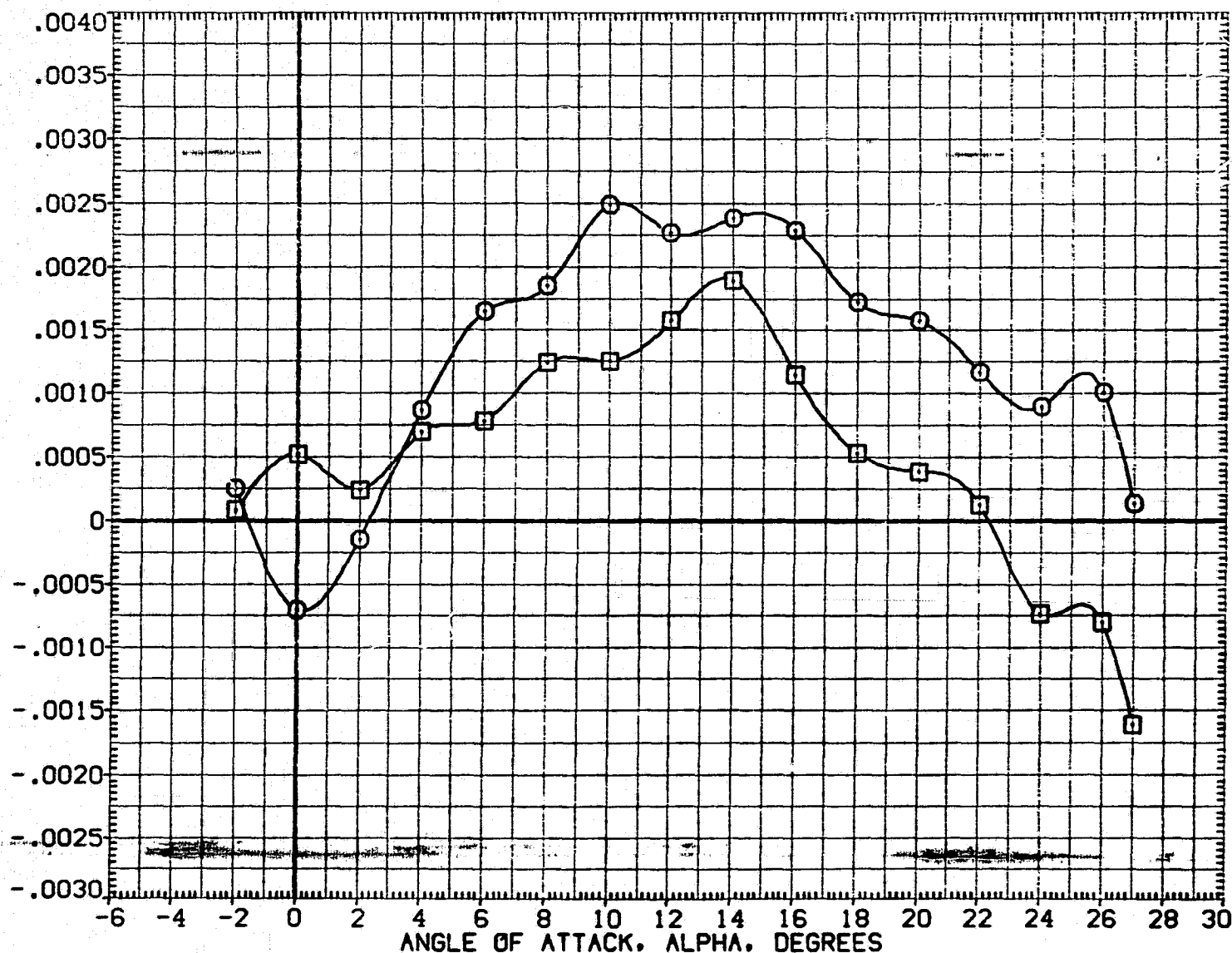


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BT027) ☐ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116
(BT044) ☐ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 SEAL

ELV-L0 ELV-L1 ELV-R1 ELV-R0
-20.000 -20.000 -20.000 -20.000
-20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

LIFT/DRAG RATIO. L/D

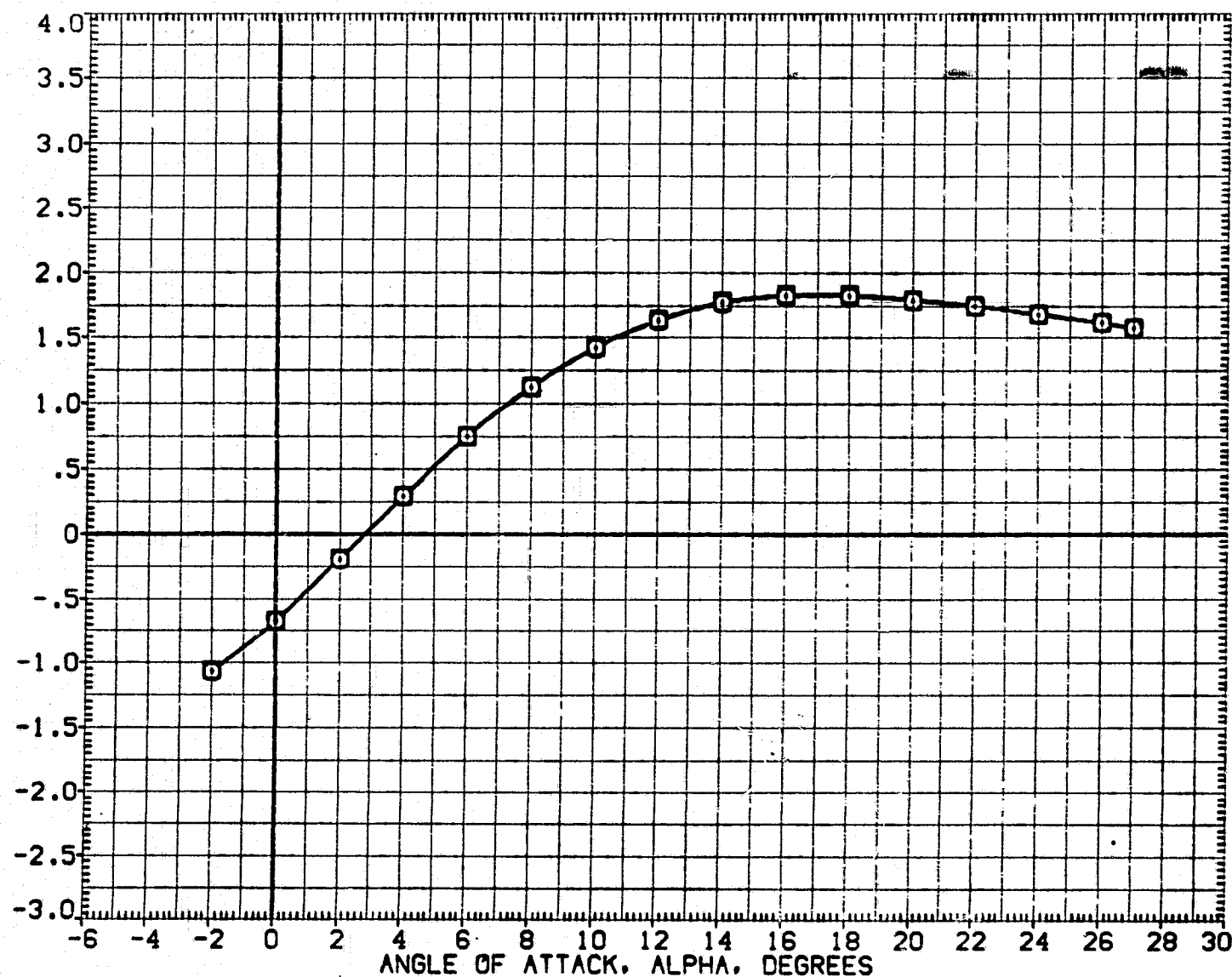


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)
(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTV027) ☐ 0A115 826 C9 E43 F8 M16 N28 R5 V8 W116
(RTV044) ☐ 0A115 826 C9 E43 F8 M16 N28 R5 V8 W116 SEAL

ELV-L0 ELV-L1 ELV-R1 ELV-R0
-20.000 -20.000 -20.000 -20.000
-20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

LIFT COEFFICIENT, CL

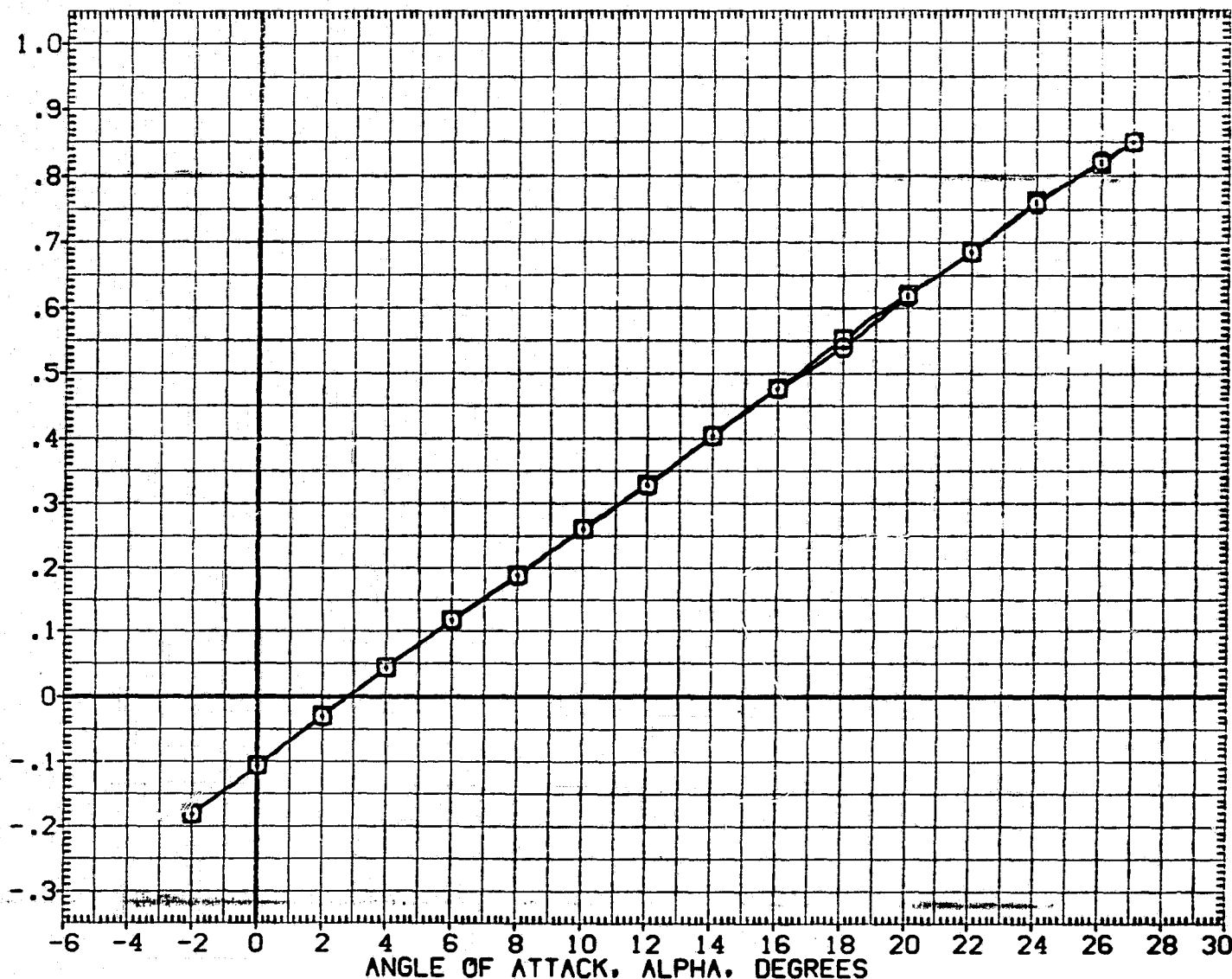


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTV027) □ OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116
 (RTV044) □ OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116 SEAL

ELV-L0 ELV-L1 ELV-R1 ELV-R0
 -20.000 -20.000 -20.000 -20.000
 -20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1076.6800 IN.X0
 YMRP .0000 IN.Y0
 ZMRP 375.0000 IN.Z0
 SCALE .0150

DRAG COEFFICIENT, C_D

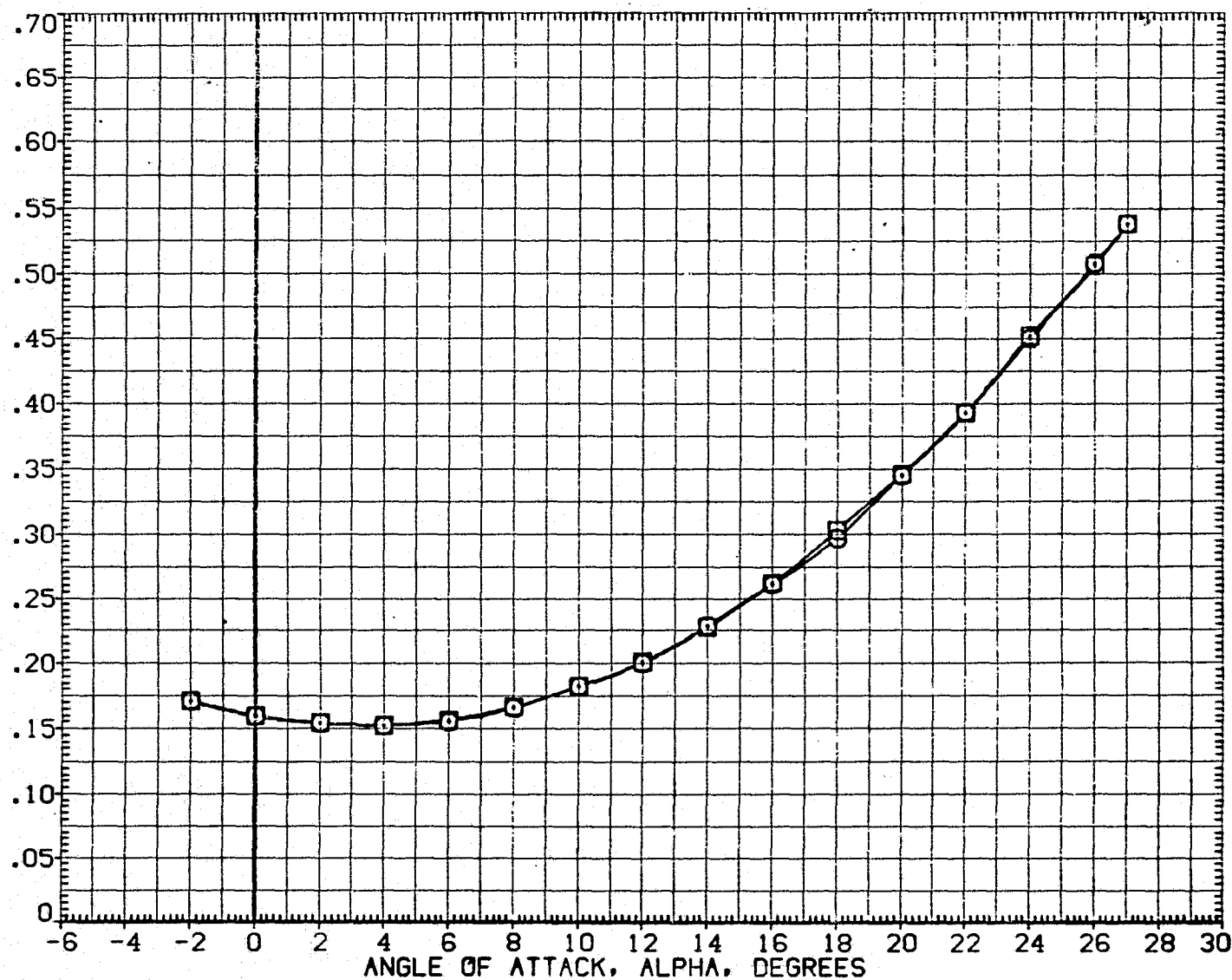


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(RTV027)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000 SQ.FT.
(RTV044)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116 SEAL	-20.000	-20.000	-20.000	-20.000	LREF	474.8100 IN.
								BREF	936.6800 IN.
								YMRP	1076.5800 IN.X0
								YMRP	.0000 IN.Y0
								ZMRP	375.0000 IN.Z0
								SCALE	.0150

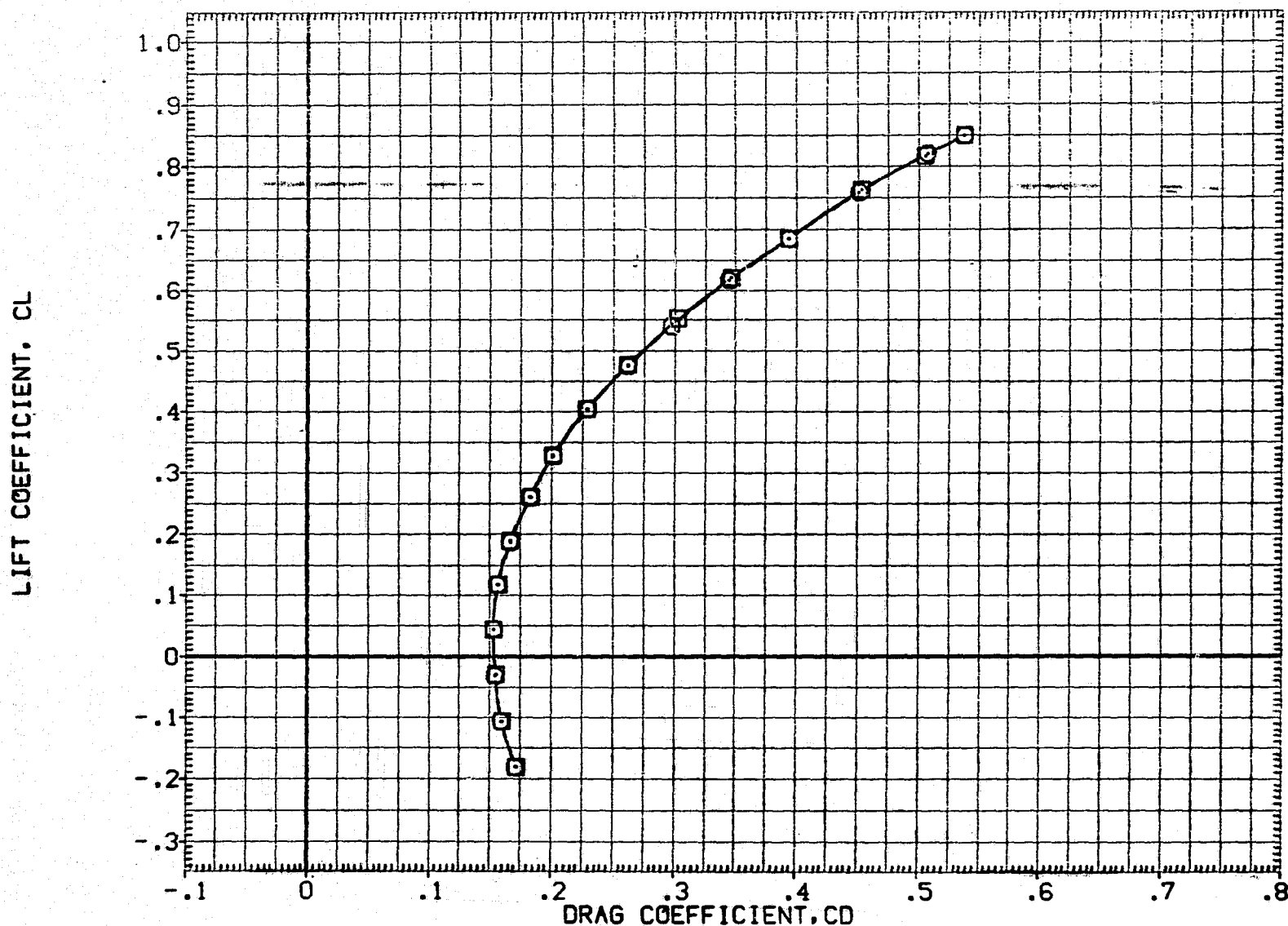


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)
(A) MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV027) \square 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
 (ATV044) \square 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEAL

ELV-L0 ELV-L1 ELV-R1 ELV-R0
 -20.000 -20.000 -20.000 -20.000
 -20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1076.6800 IN.X0
 YMRP .0000 IN.Y0
 ZMRP 375.0000 IN.Z0
 SCALE .0150

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

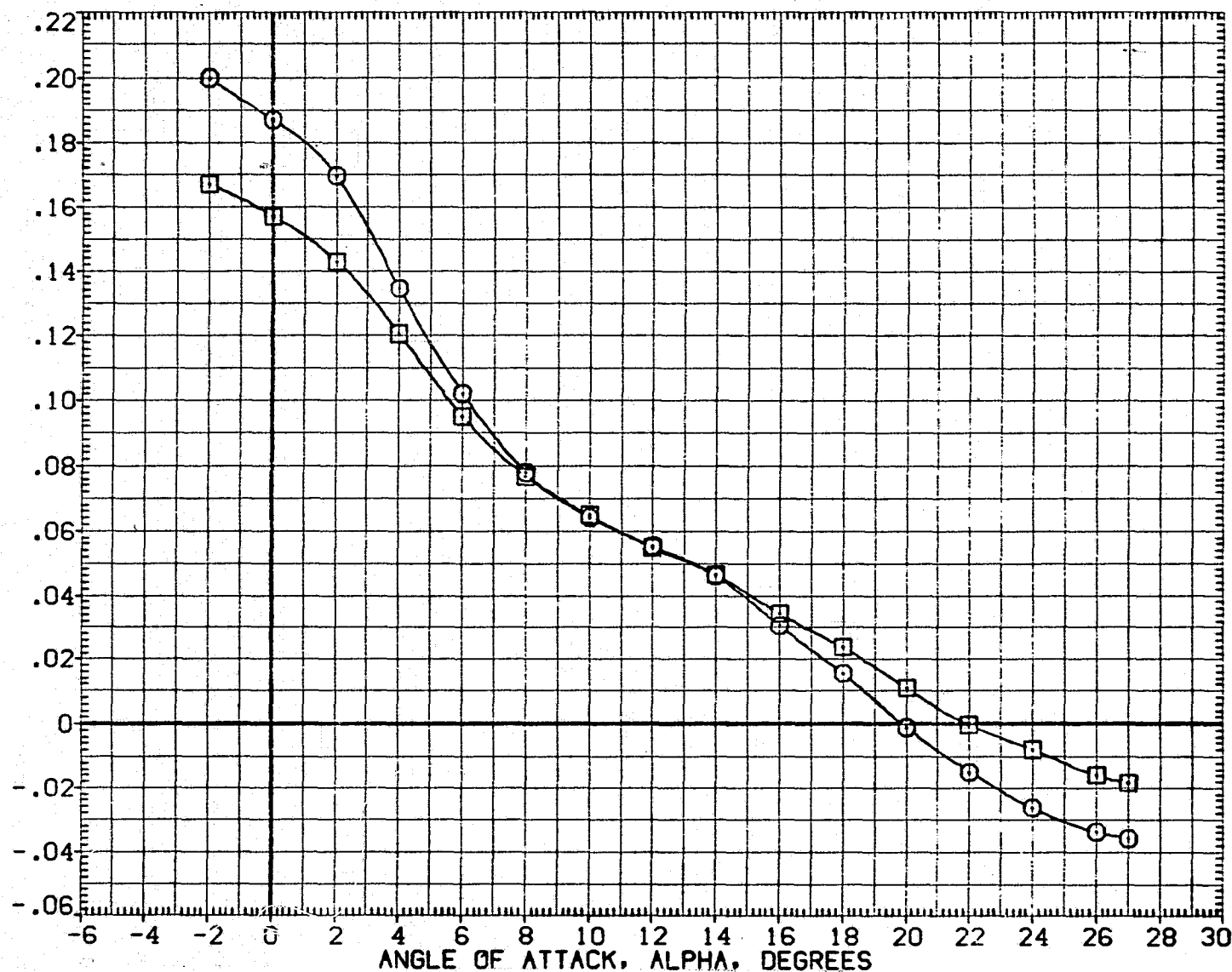


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)
 (A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV027)	0A115 926 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	SREF	2690.0000	50.FT.
(ATV044)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116 SEAL	-20.000	-20.000	-20.000	-20.000	LREF	474.8100	IN.
						BREF	936.6800	IN.
						XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

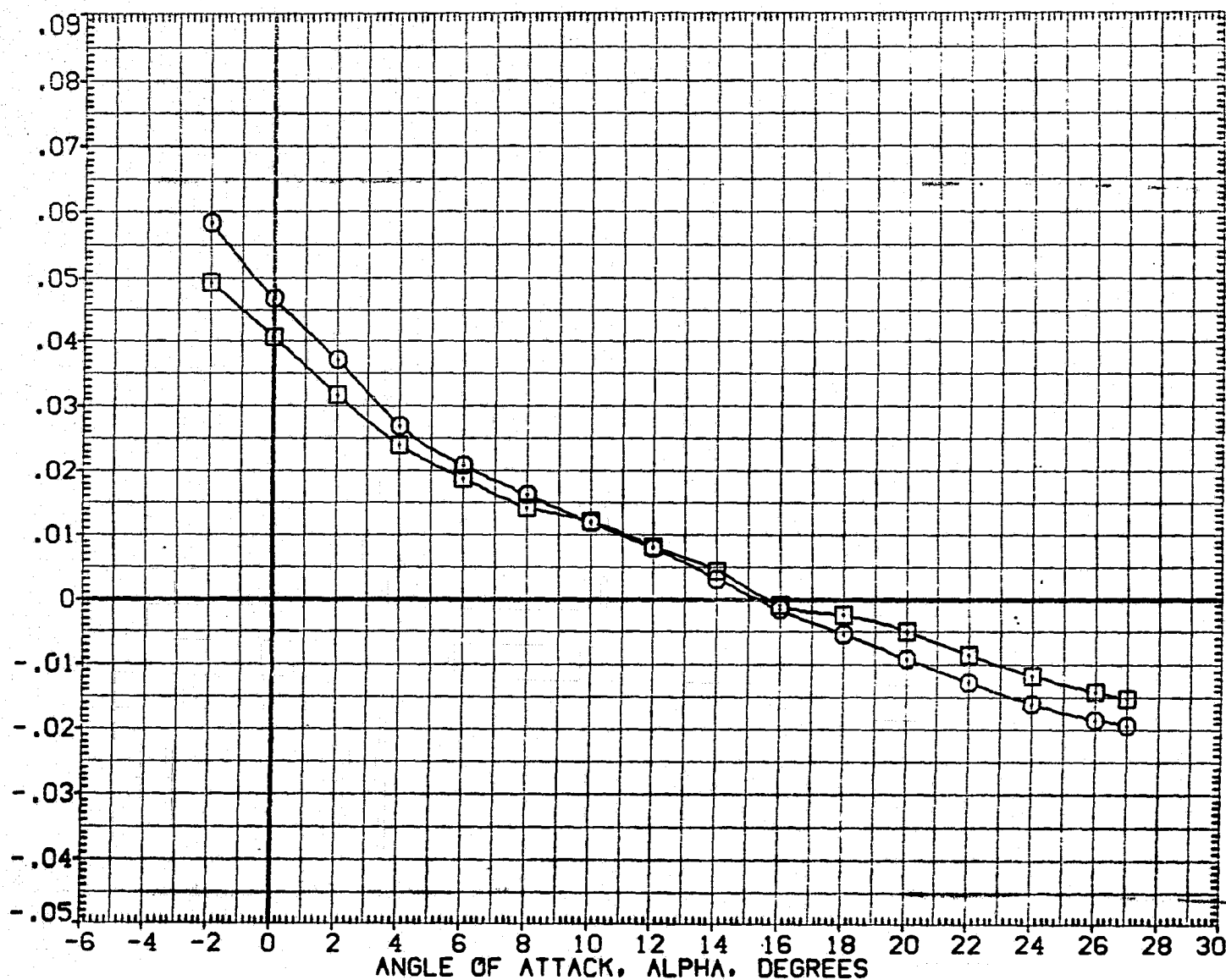


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)

(A) MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV027) ☐ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116
 (ATV044) ☐ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 SEAL

ELV-L0 ELV-L1 ELV-R1 ELV-R0
 -20.000 -20.000 -20.000 -20.000
 -20.000 -20.000 -20.000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1076.6800 IN.X0
 YMRP .0000 IN.Y0
 ZMRP 375.0000 IN.Z0
 SCALE .0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

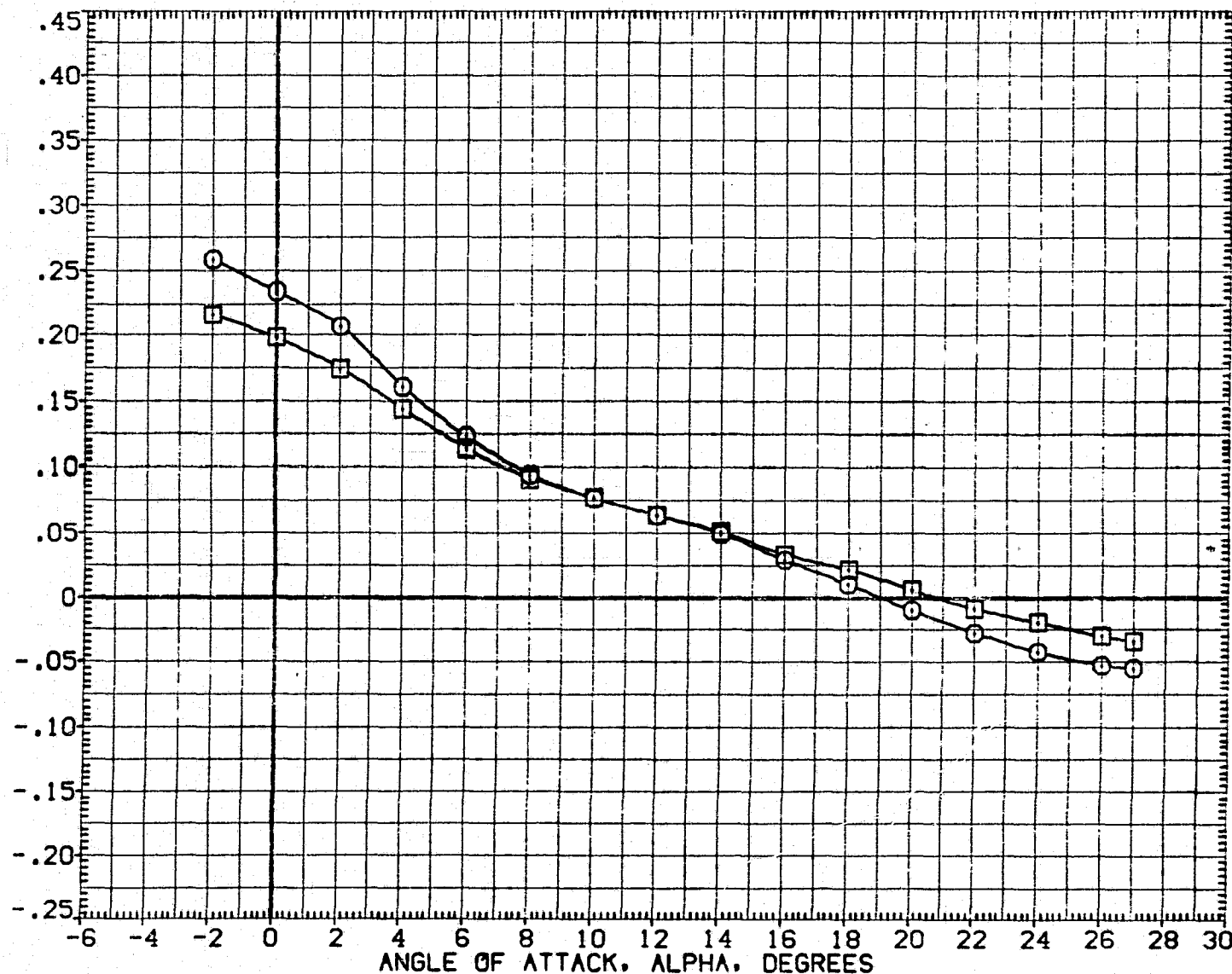


FIG. 6 EFFECT OF SEALED ELEVON HINGE LINE (BODY FLAP= 0, SPEED BRAKE= 55)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	GA115 826 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO20)	GA115 826 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	GA115 826 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	GA115 826 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTVO29)	GA115 826 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

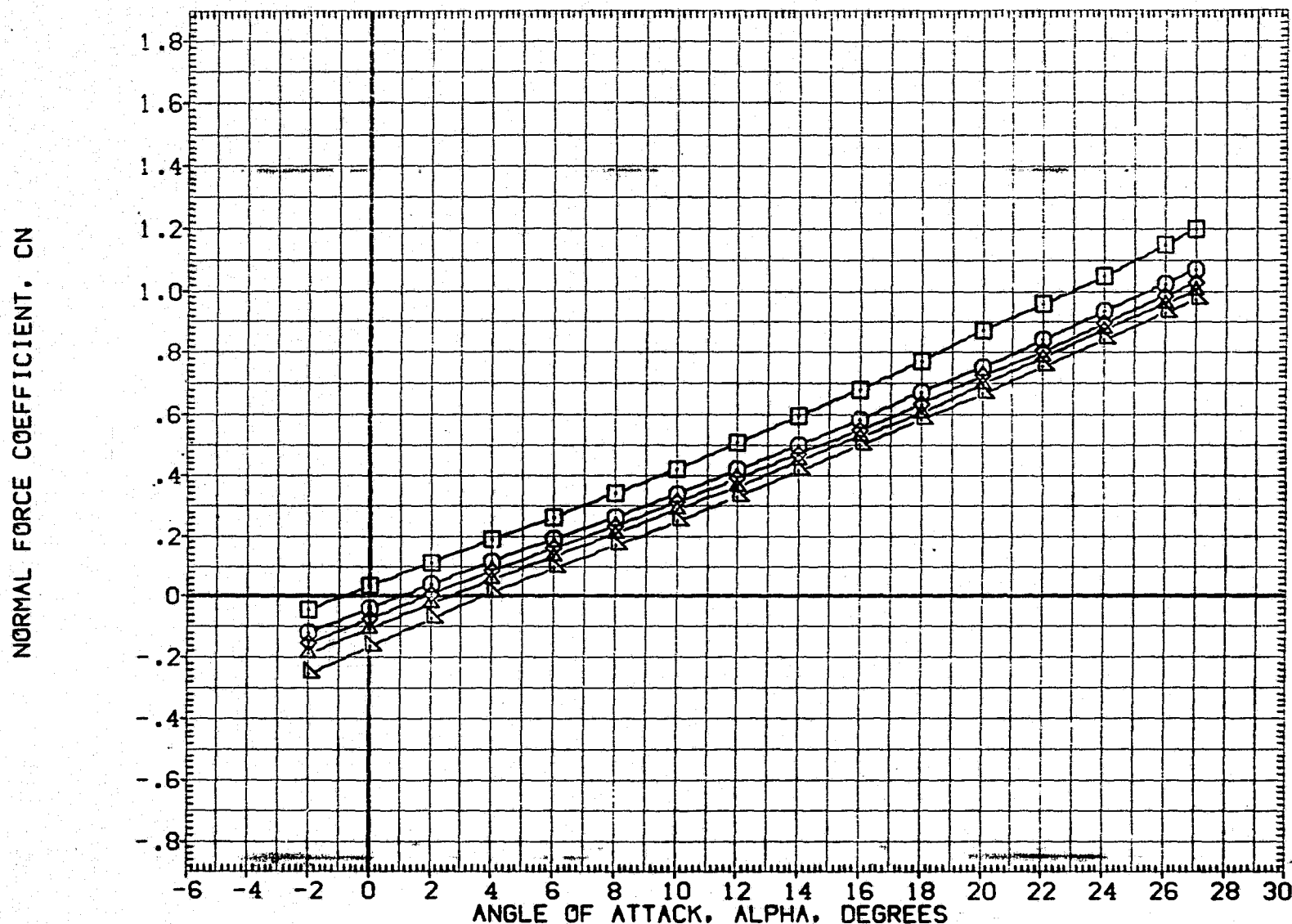


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(A) MACH = 2.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.).CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO20)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTVO29)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

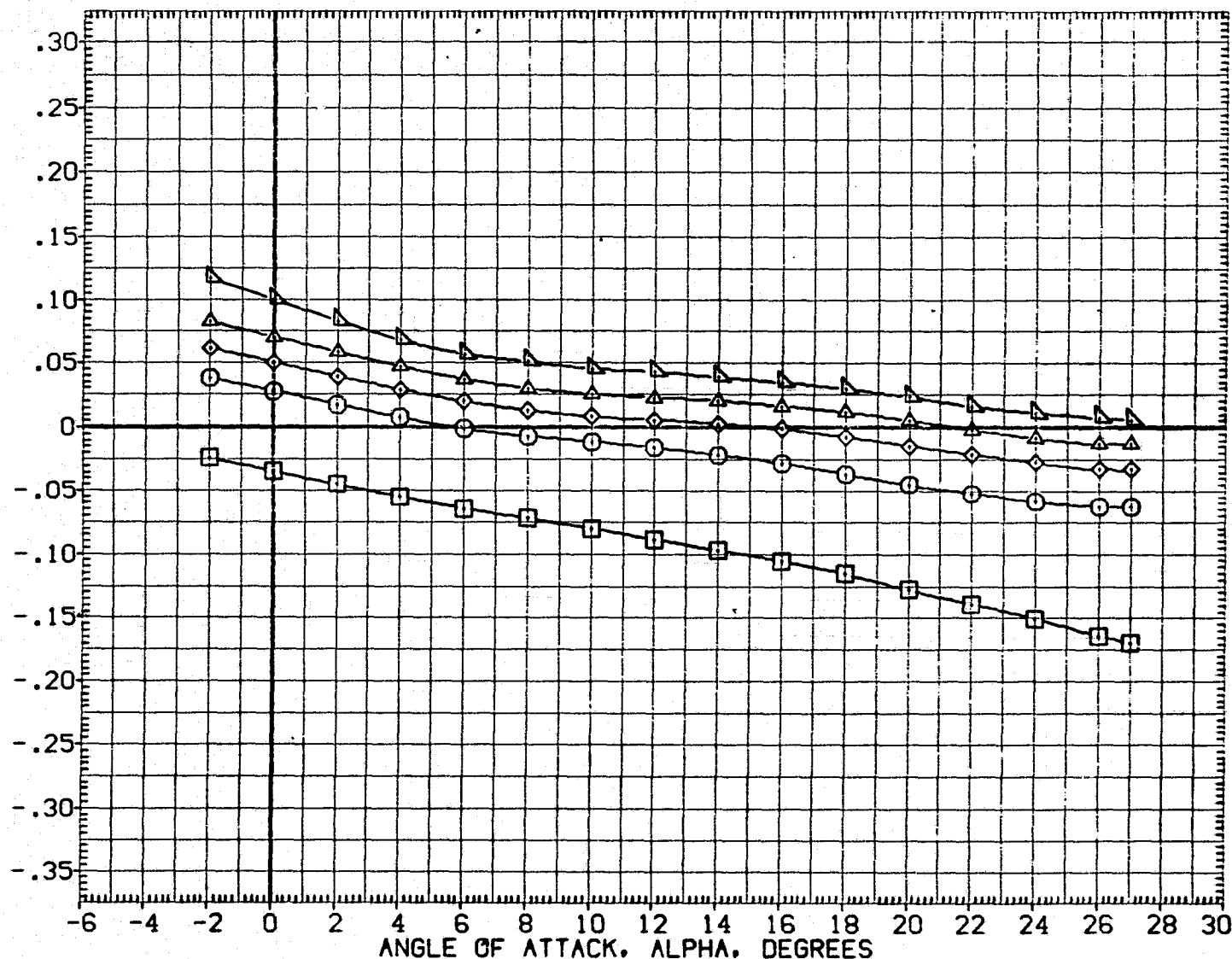


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRF	1076.6800	IN.X0
(BTV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRF	.0000	IN.Y0
						ZMRF	375.0000	IN.Z0
						SCALE	.0150	

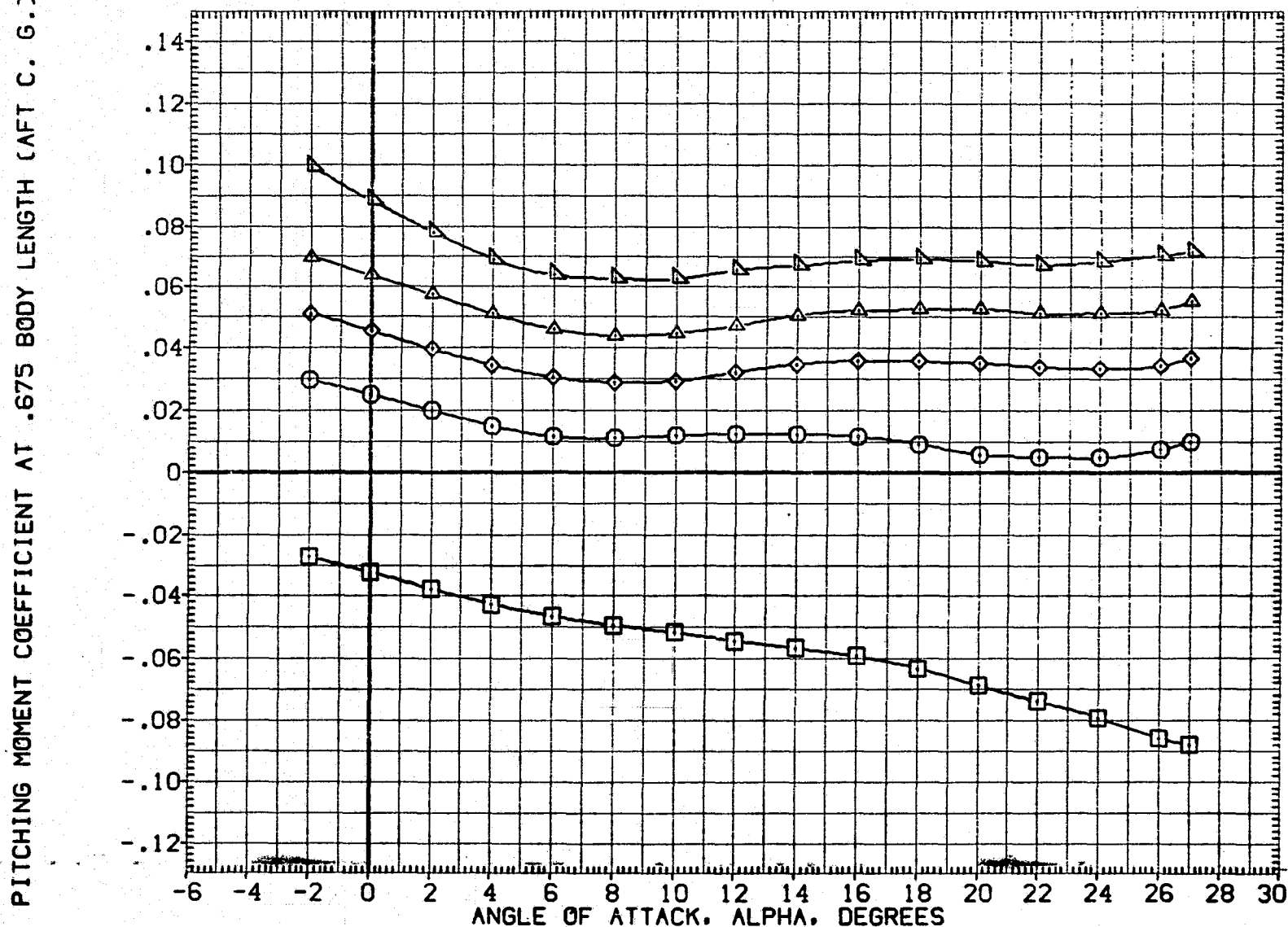


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO20)	○	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO25)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO27)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO29)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

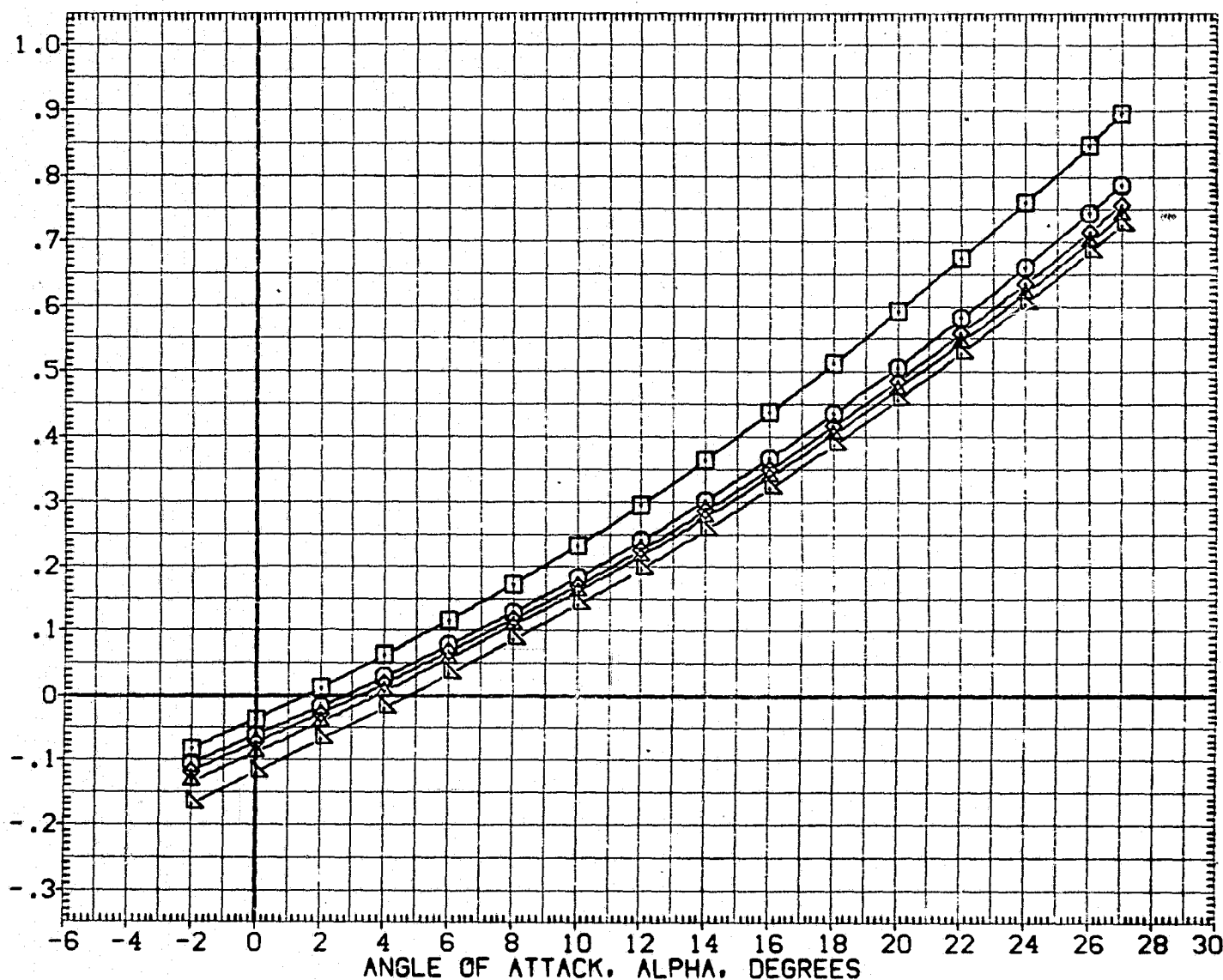


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO20)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6600	IN.
(BTVO27)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTVO29)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

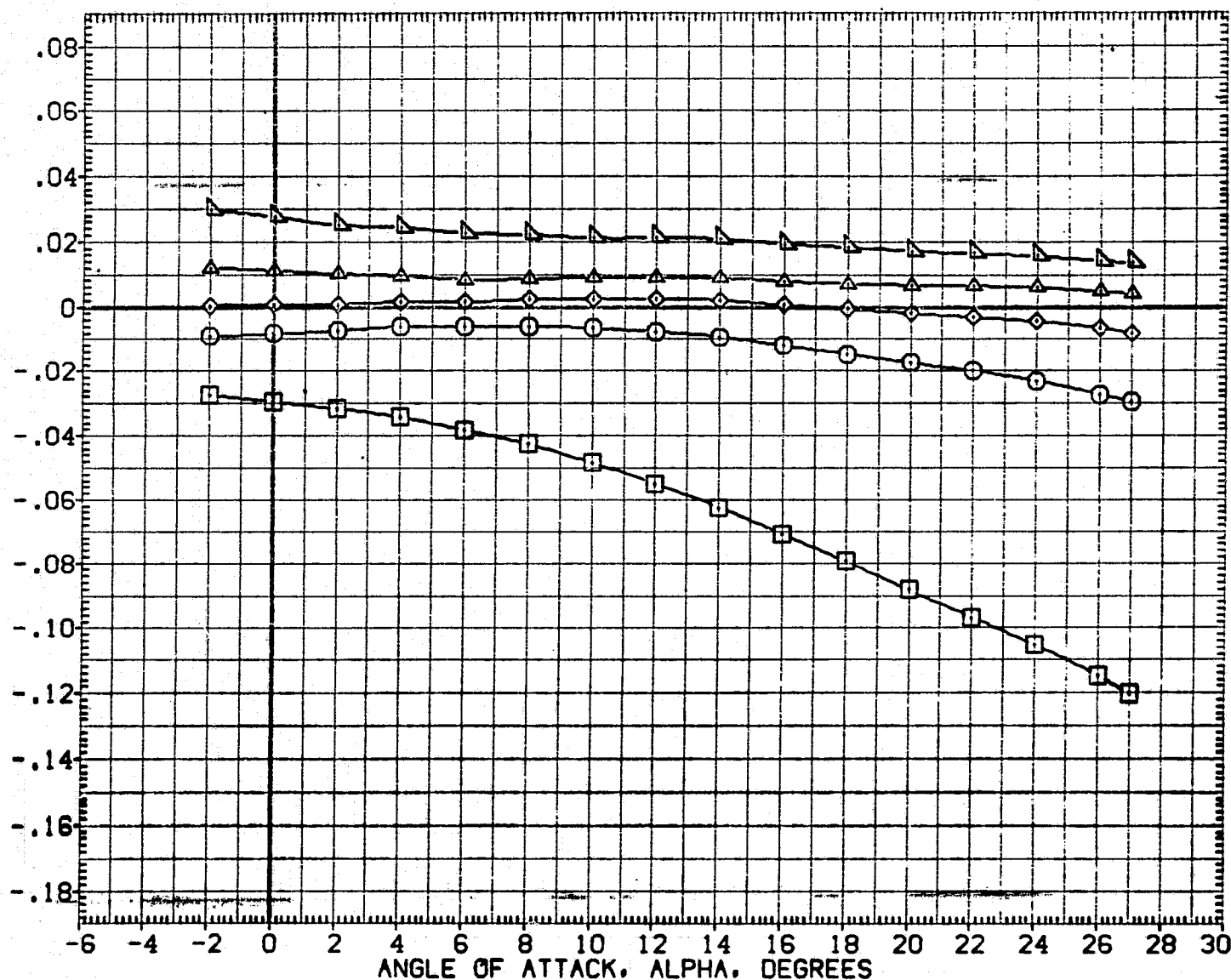


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(B)MACH = 4.00

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.), CLMAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO20)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO25)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO29)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION	
.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
20.000	20.000	20.000	20.000	LREF	474.8100 IN.
-10.000	-10.000	-10.000	-10.000	BREF	936.6800 IN.
-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800 IN.X0
-40.000	-40.000	-40.000	-40.000	YMRP	.0000 IN.Y0
				ZMRP	375.0000 IN.Z0
				SCALE	.0150

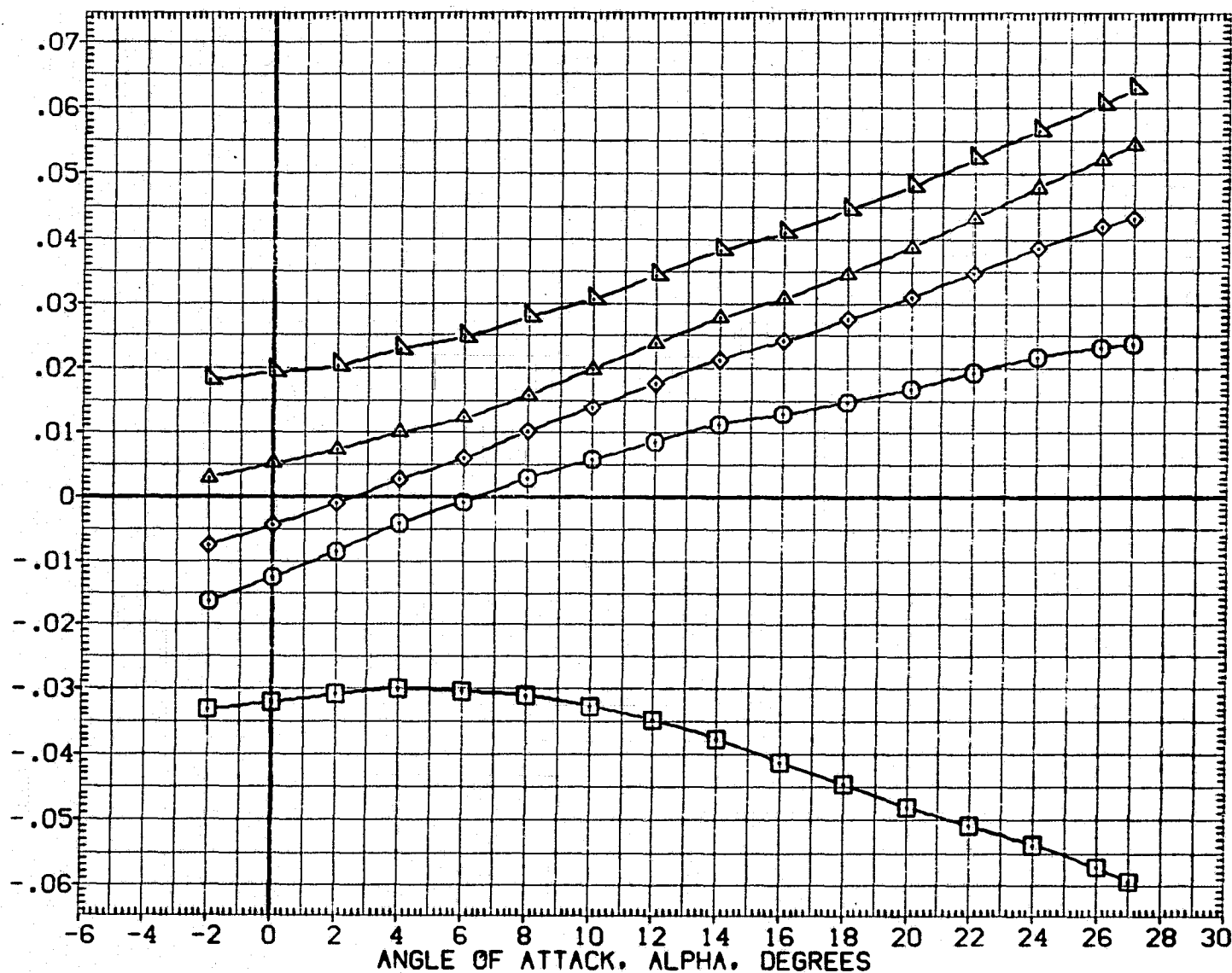


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTVO05)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO20)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO25)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO27)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO29)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION

SREF	2690.0000	SO.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

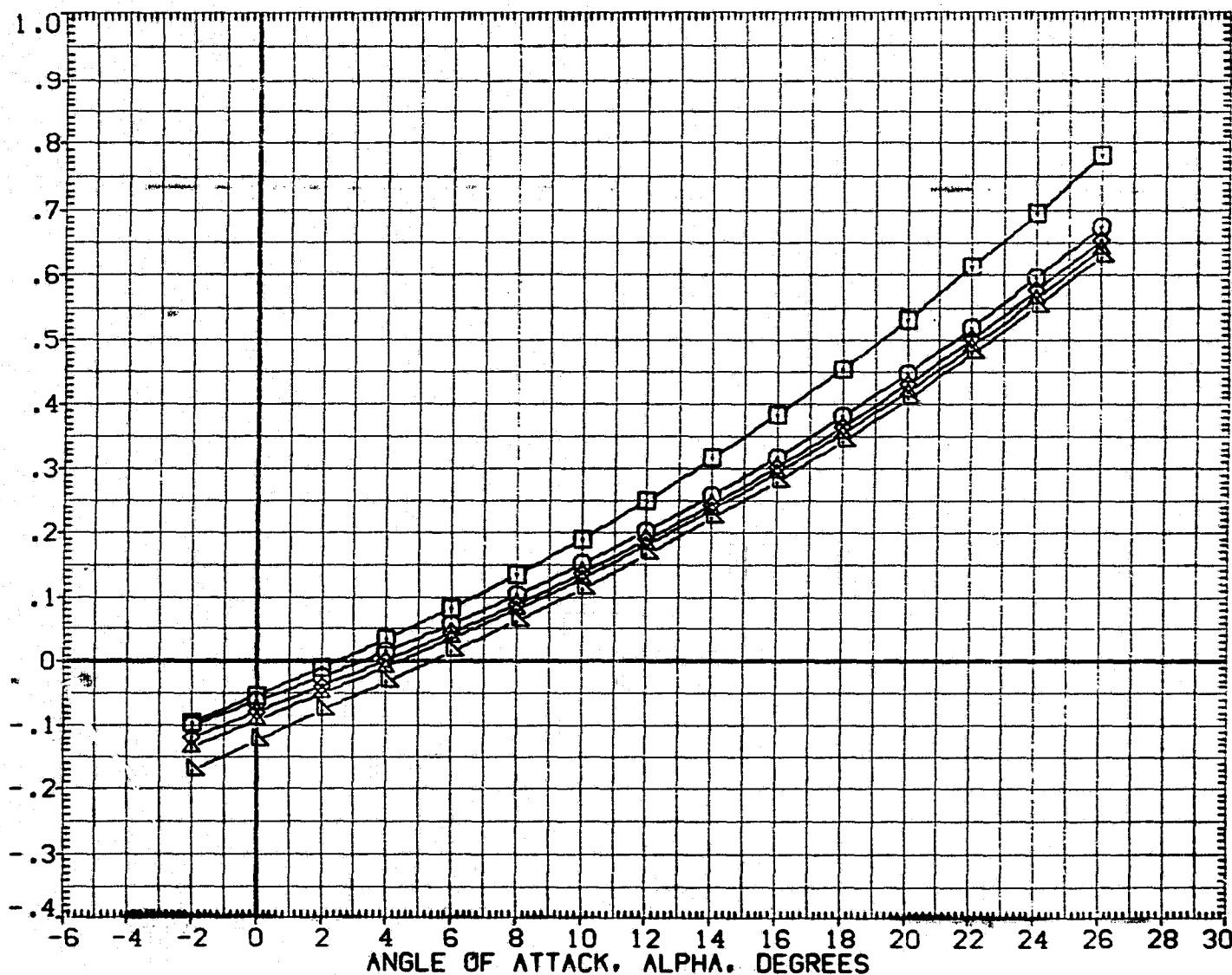


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50. FT.
(BTVO20)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTVO29)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

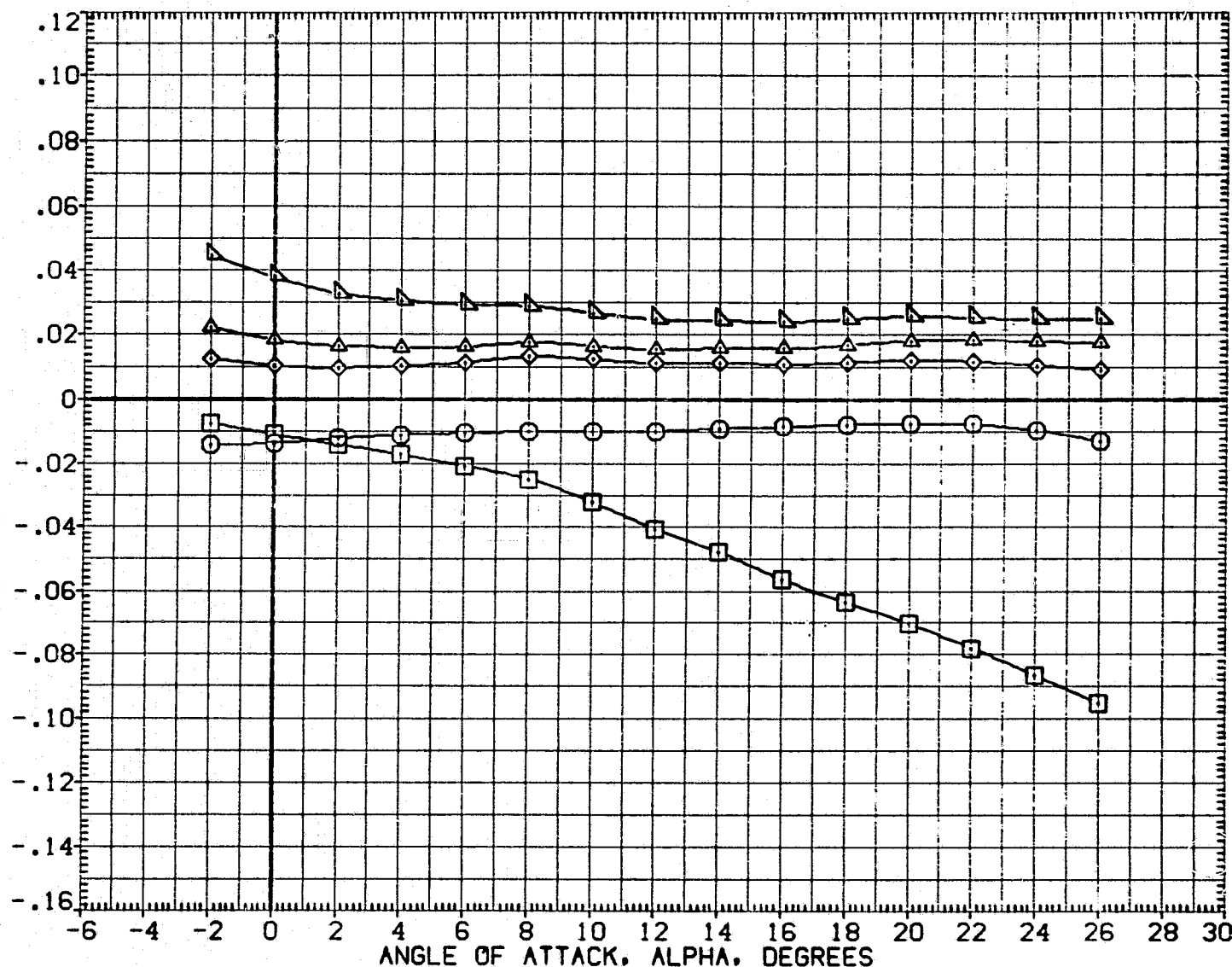


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.). CLMAFT

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	GA115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO20)	GA115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO25)	GA115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO27)	GA115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO29)	GA115	B26	C9	E43	F8	M16	N28	R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	935.6900	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

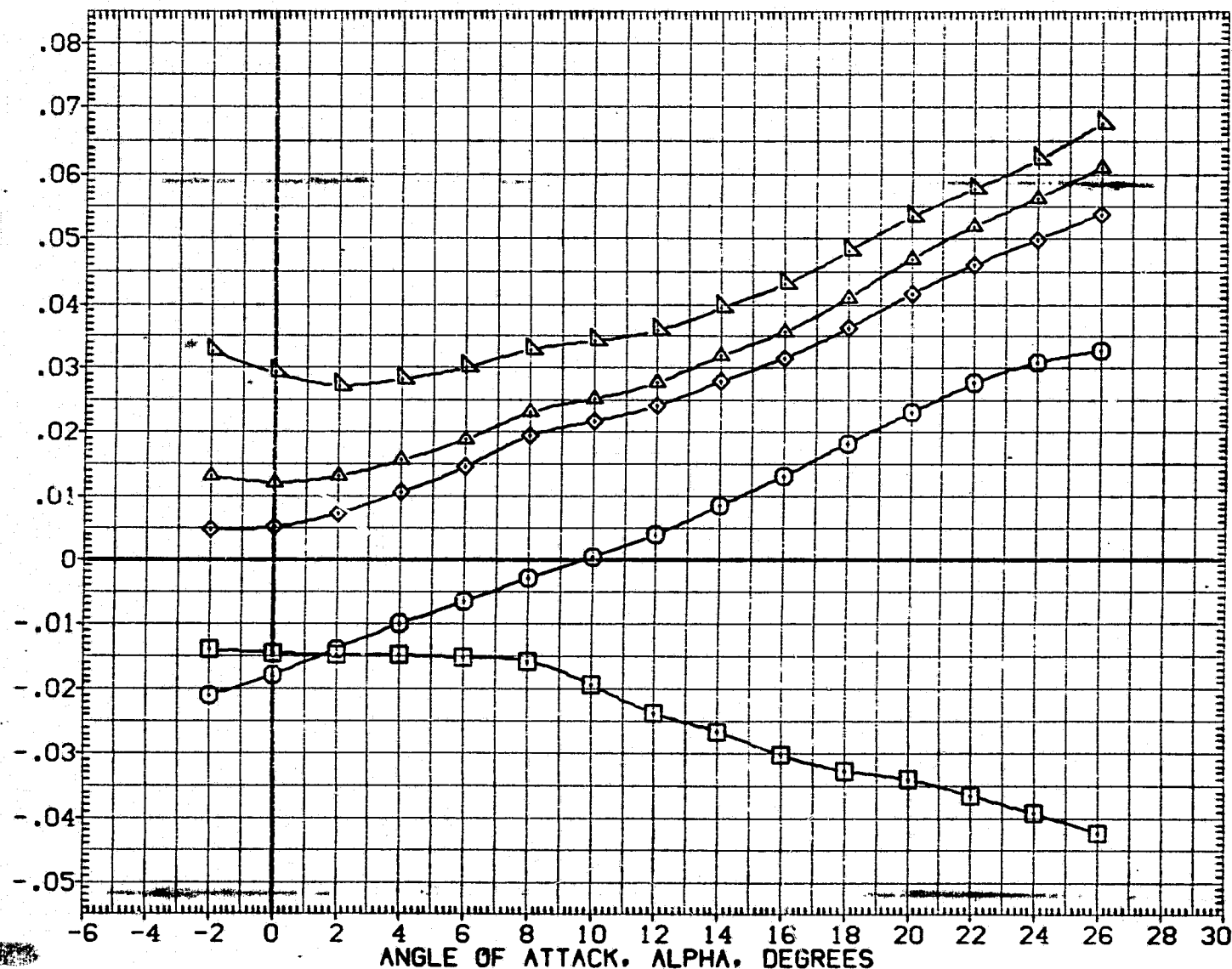


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTV025)	BA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTV020)	BA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTV025)	BA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTV027)	BA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTV029)	BA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

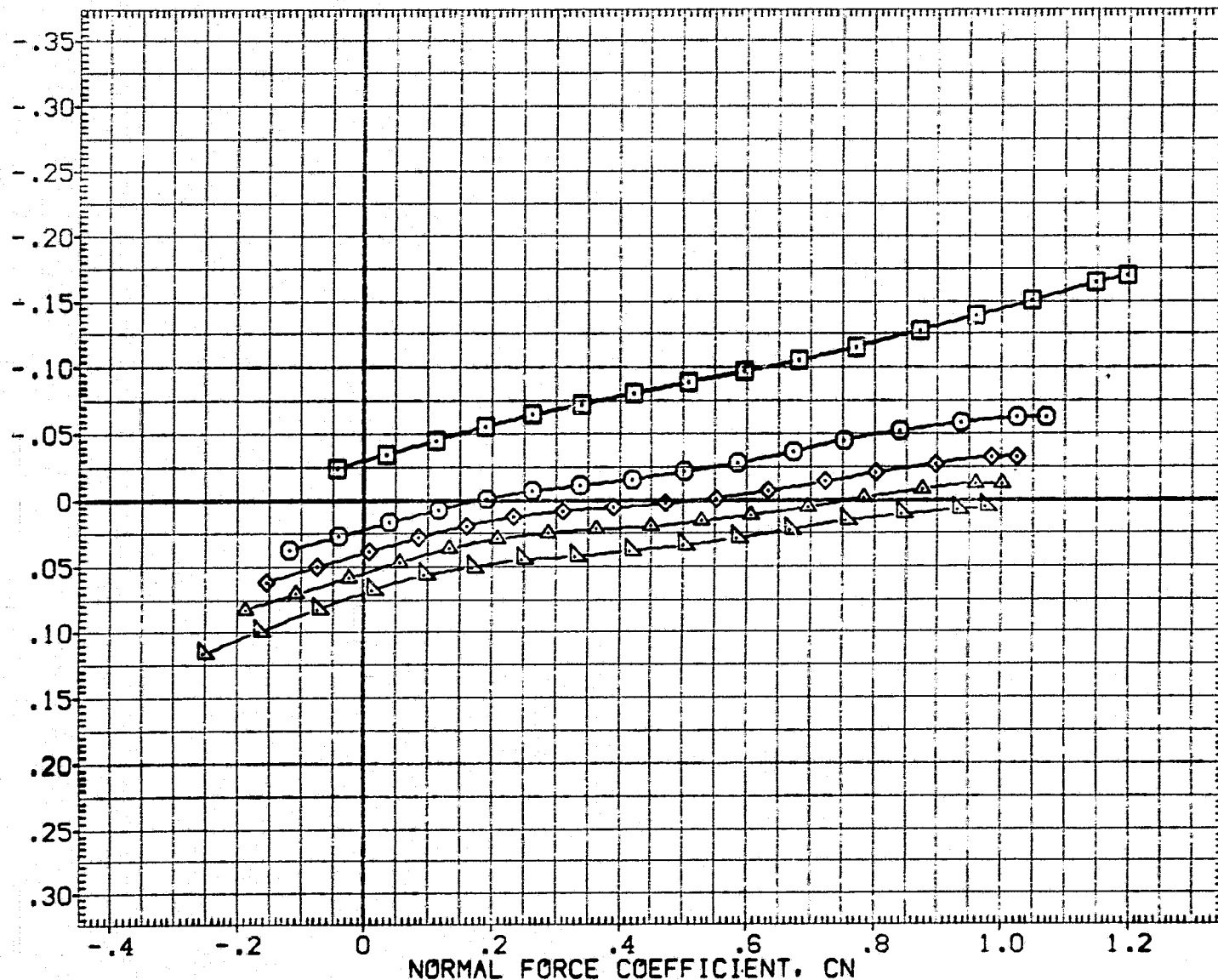


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO20)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTVO29)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.), CLMAFT

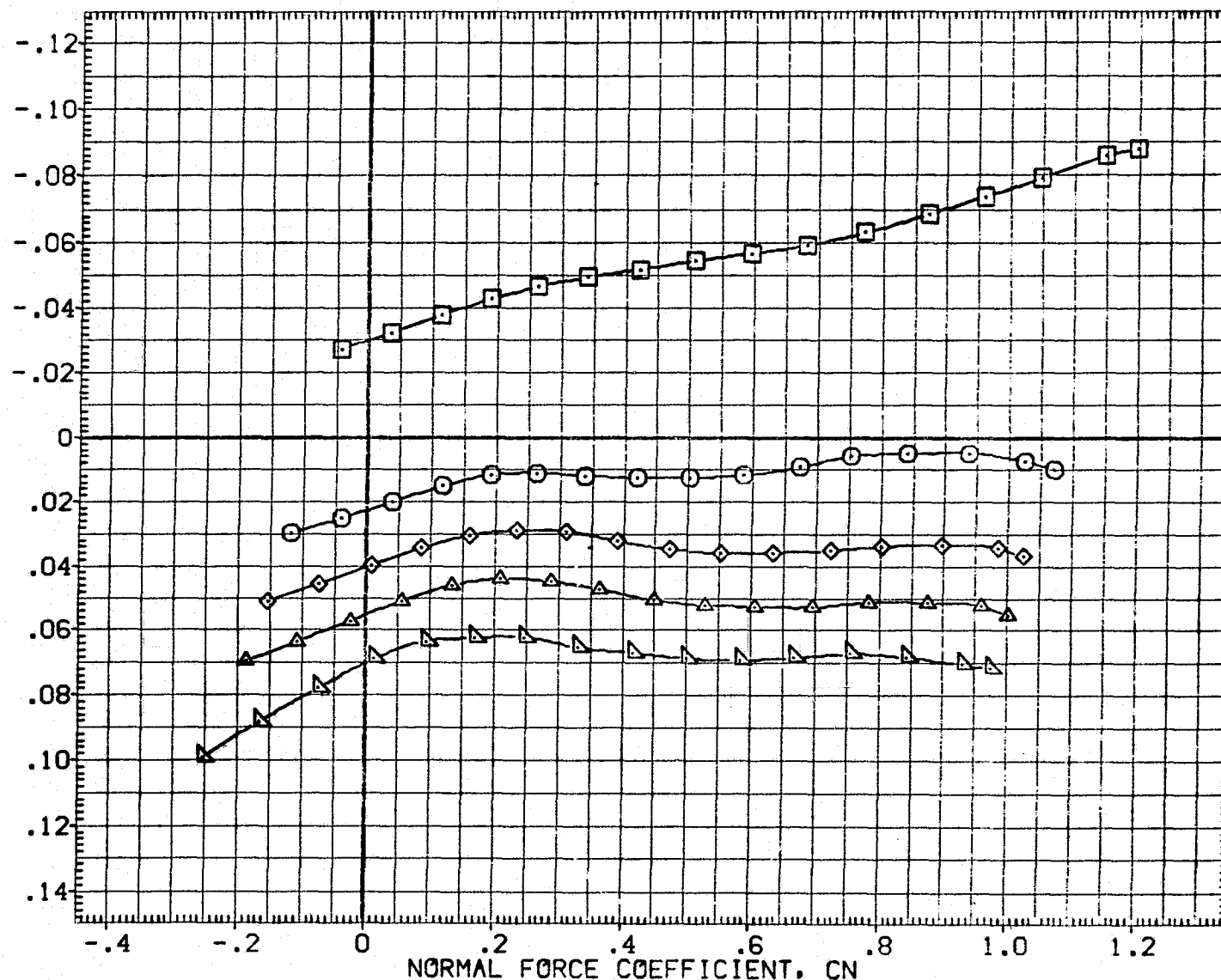


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(A)MACH = 2.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), CLMFW

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO20)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTVO29)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

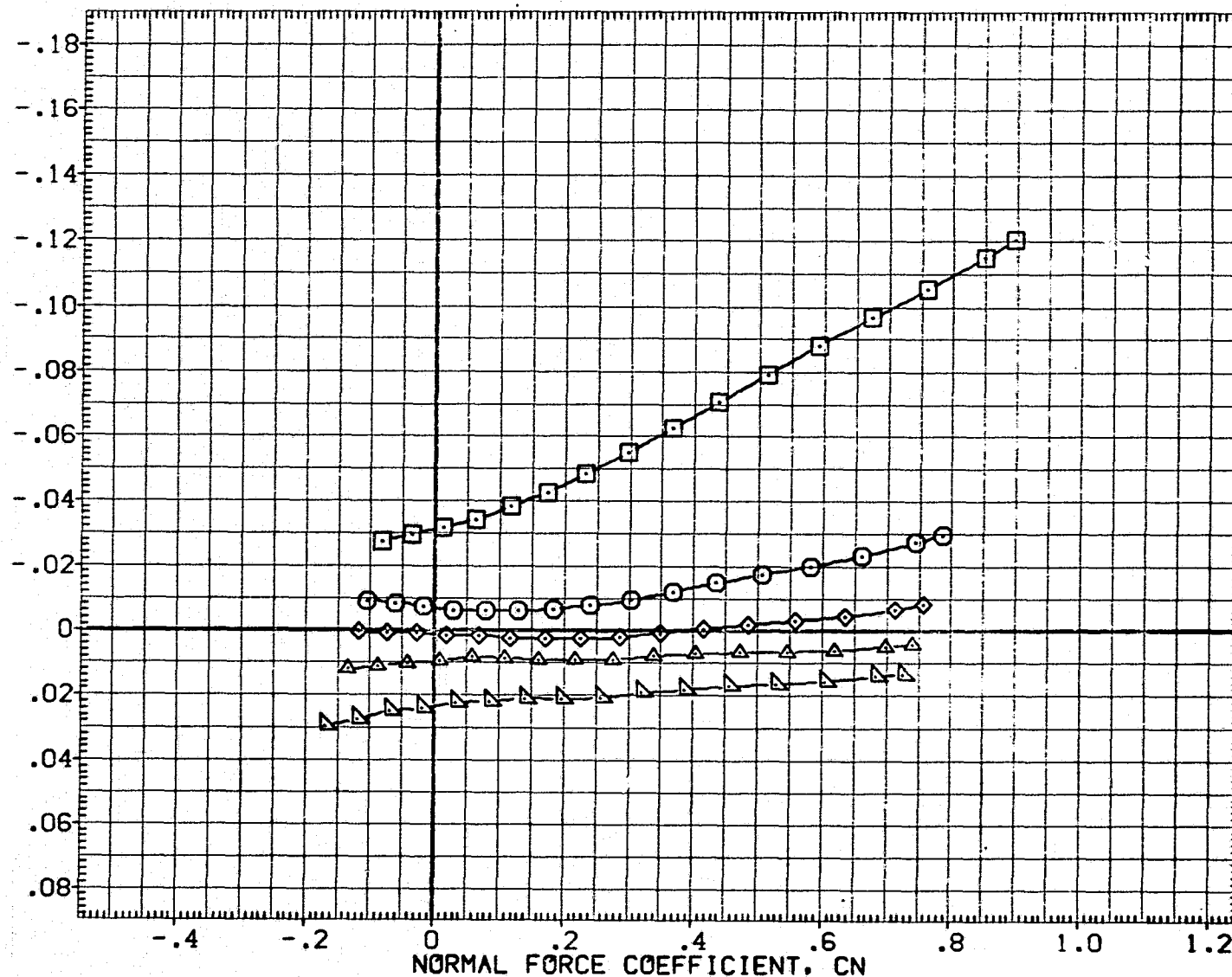


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.), CLMAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
(BTVO20)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	20.000	20.000	20.000	20.000	LREF	474.8100 IN.
(BTVO25)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800 IN.
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800 IN.X0
(BTVO29)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

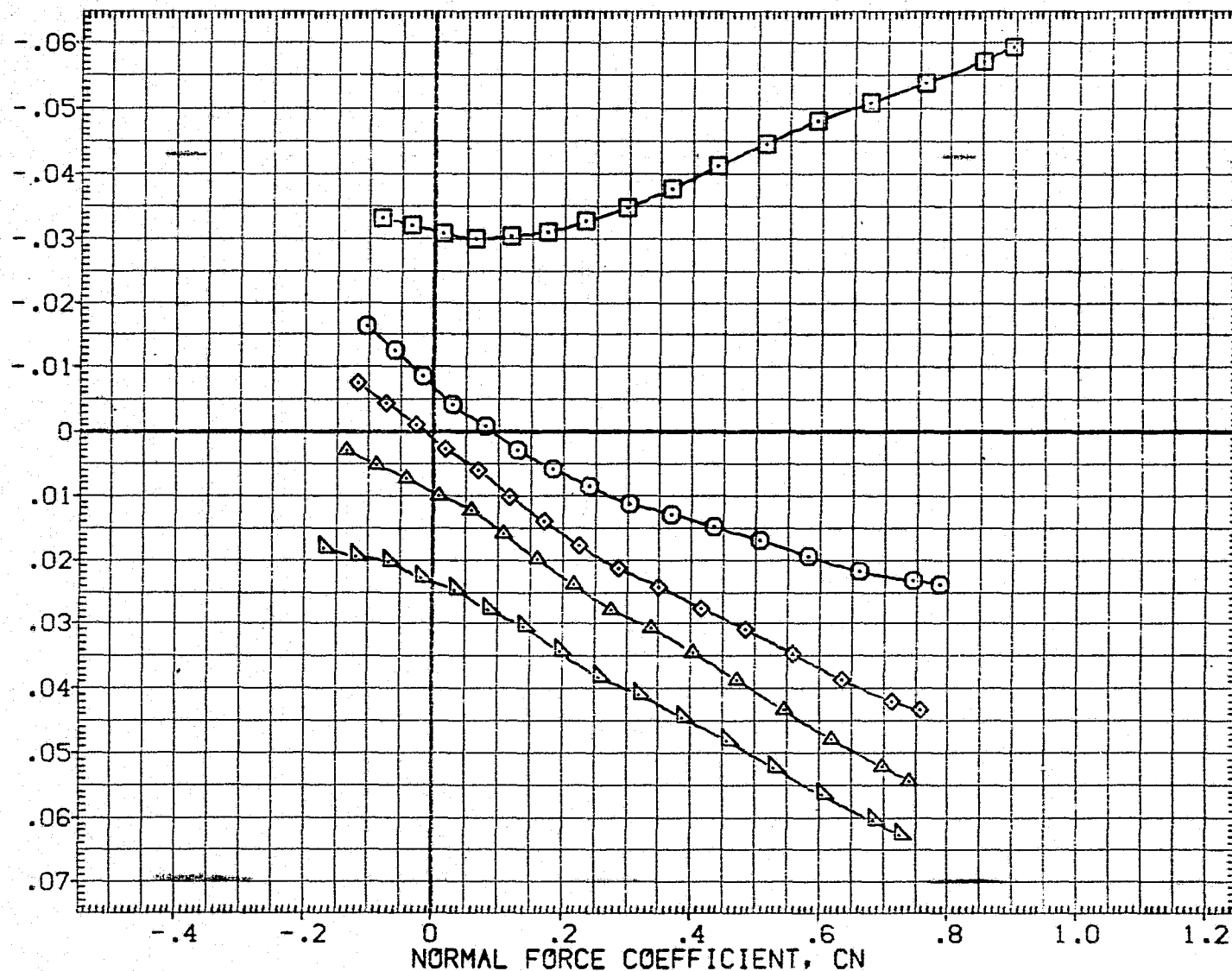


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(B)MACH = 4.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO20)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTVO29)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

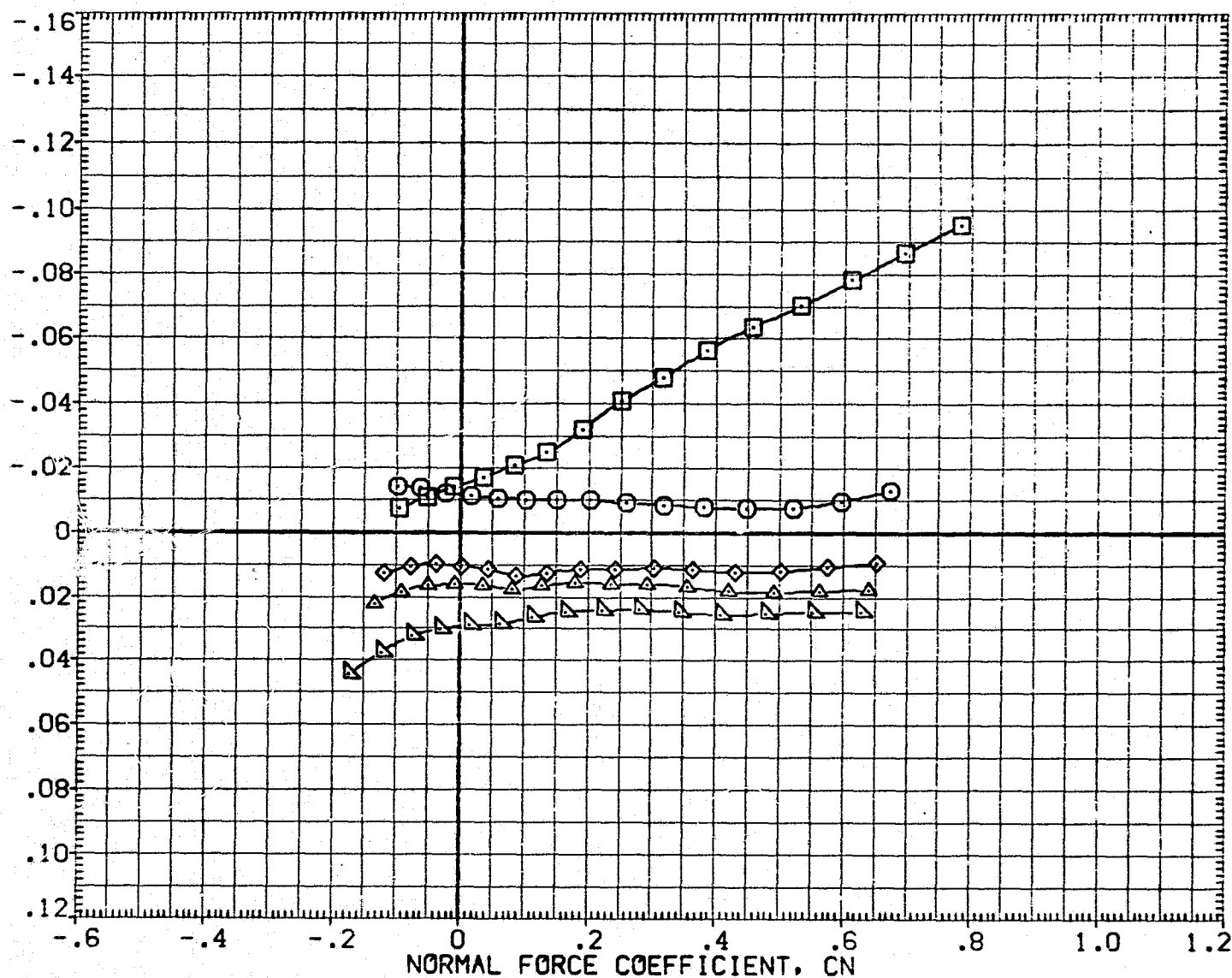


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.), CLMFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION	
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
(BTVO20)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100 IN.
(BTVO25)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800 IN.
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800 IN.X0
(BTVO29)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

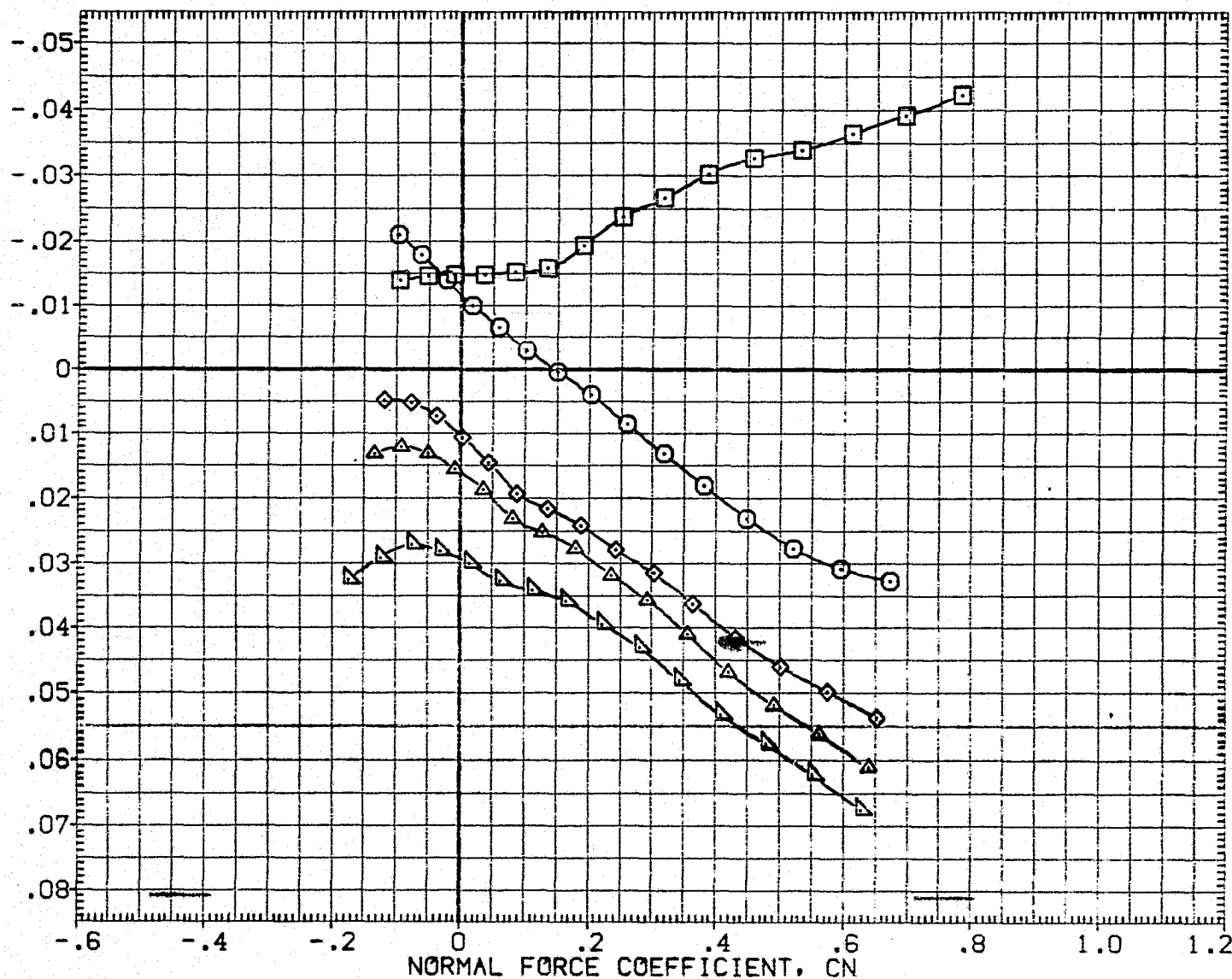


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTVO05)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO20)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO25)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO27)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO29)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0 ELV-L1 ELV-R1 ELV-R0 REFERENCE INFORMATION

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
20.000	20.000	20.000	20.000	LREF 474.8100 IN.
-10.000	-10.000	-10.000	-10.000	BREF 936.6800 IN.
-20.000	-20.000	-20.000	-20.000	XMRP 1076.6800 IN.X0
-40.000	-40.000	-40.000	-40.000	YMRP .0000 IN.Y0
				ZMRP 375.0000 IN.Z0
				SCALE .0150

CENTER OF PRESSURE LOCATION-AS A FRACTION OF BODY LENGTH.

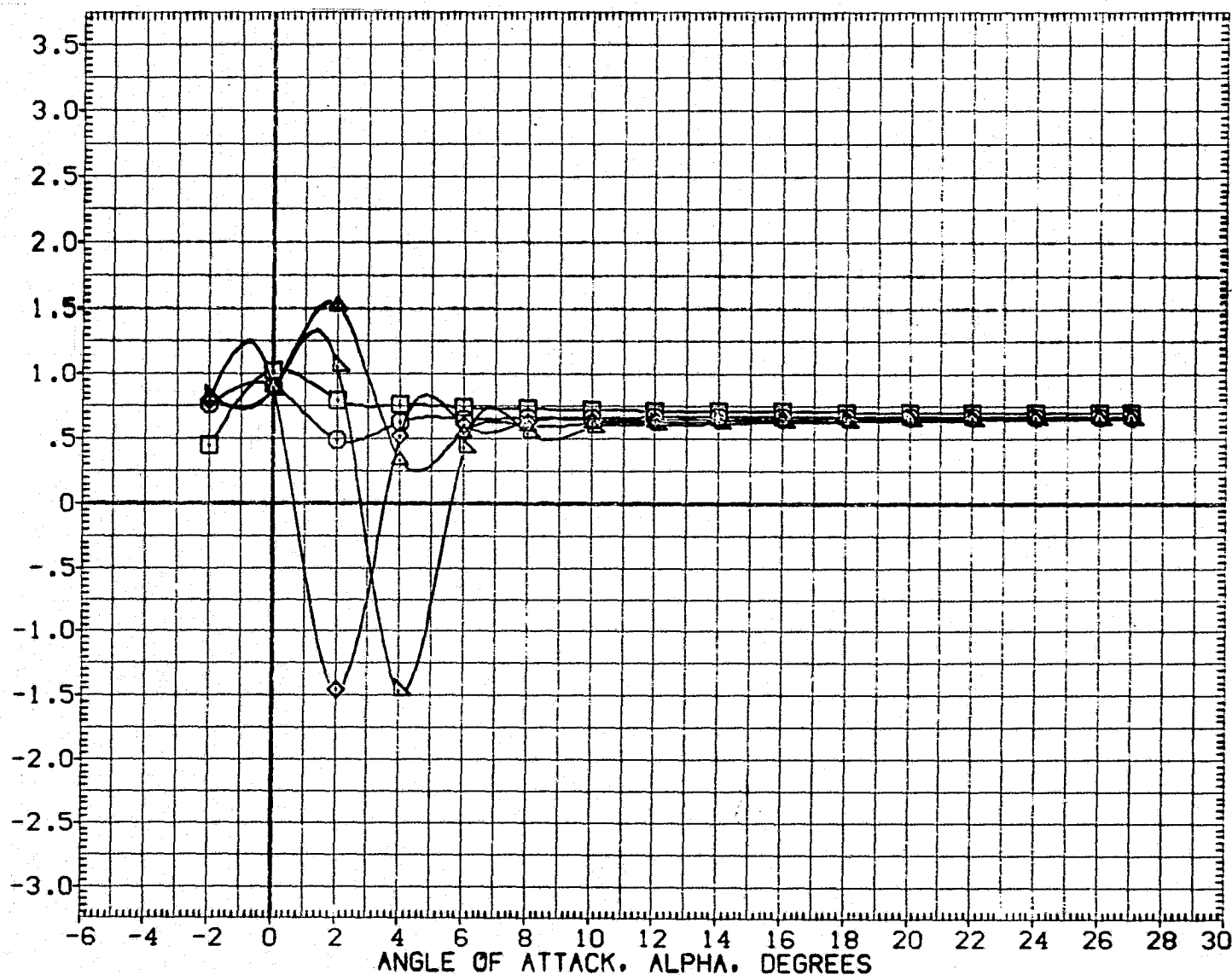
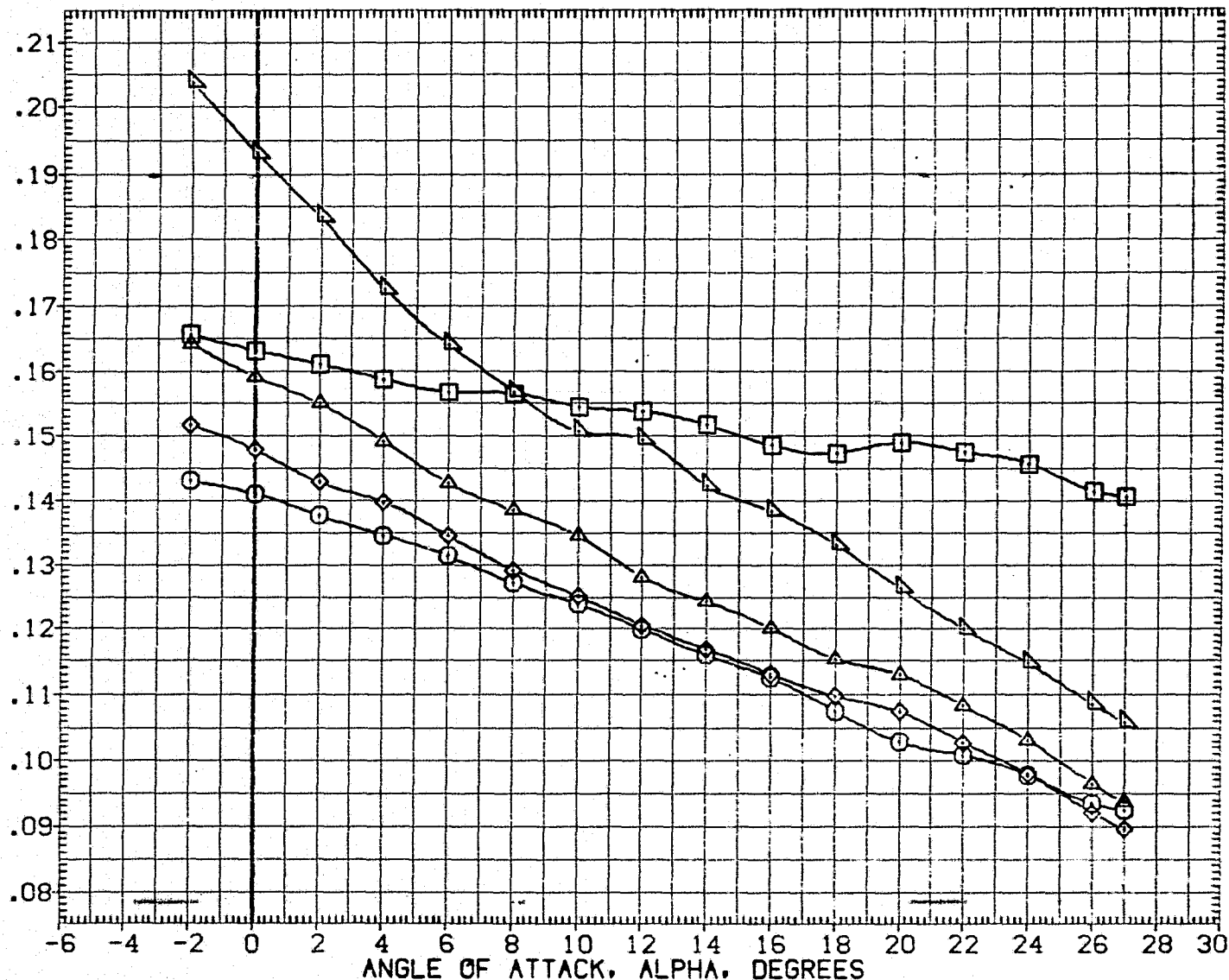


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

AXIAL FORCE COEFFICIENT, C_A



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVD05)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVD20)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVD25)	×	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVD27)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVD29)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

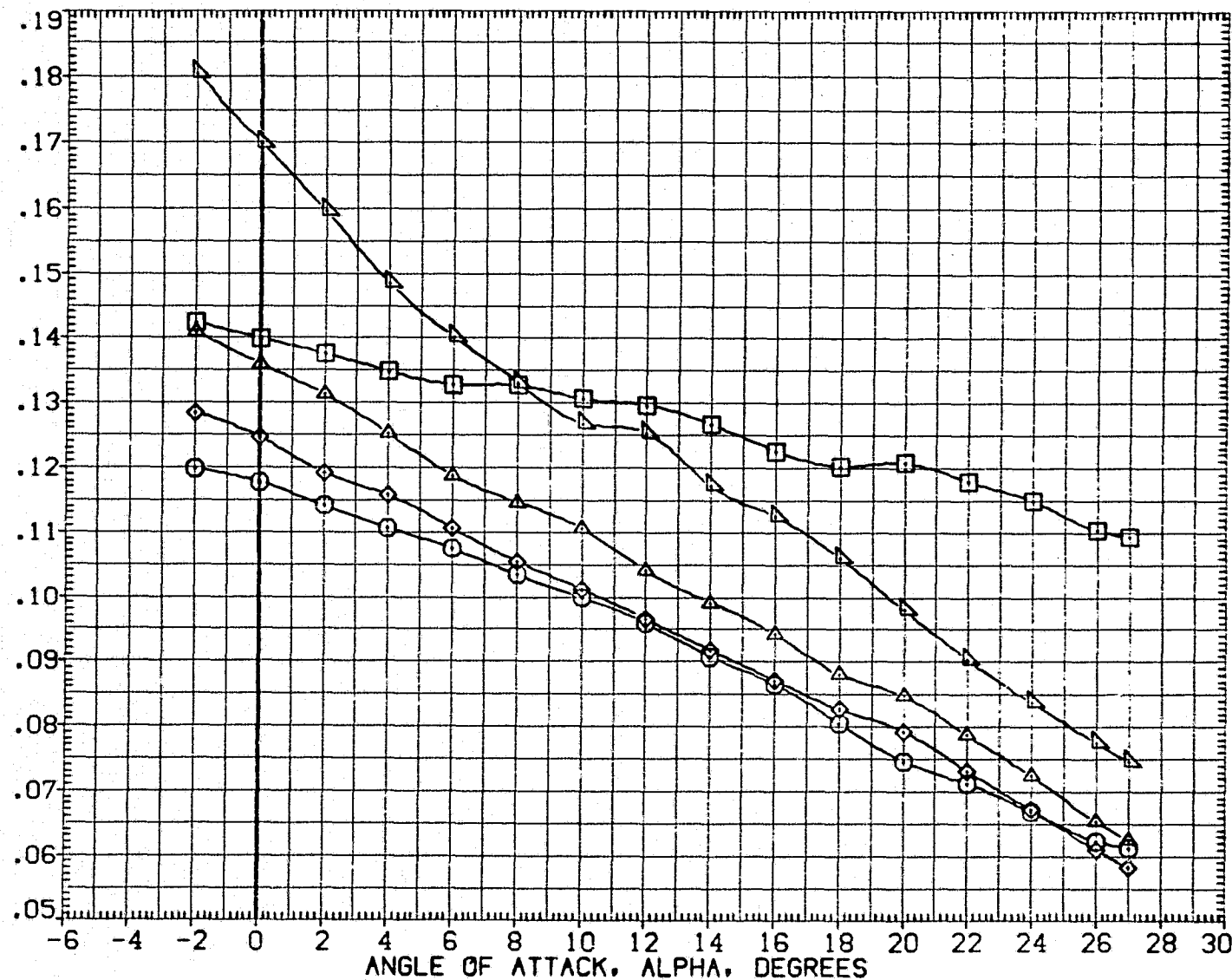


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO20)	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO25)	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO27)	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO29)	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

BASE AXIAL FORCE COEFFICIENT, CAB

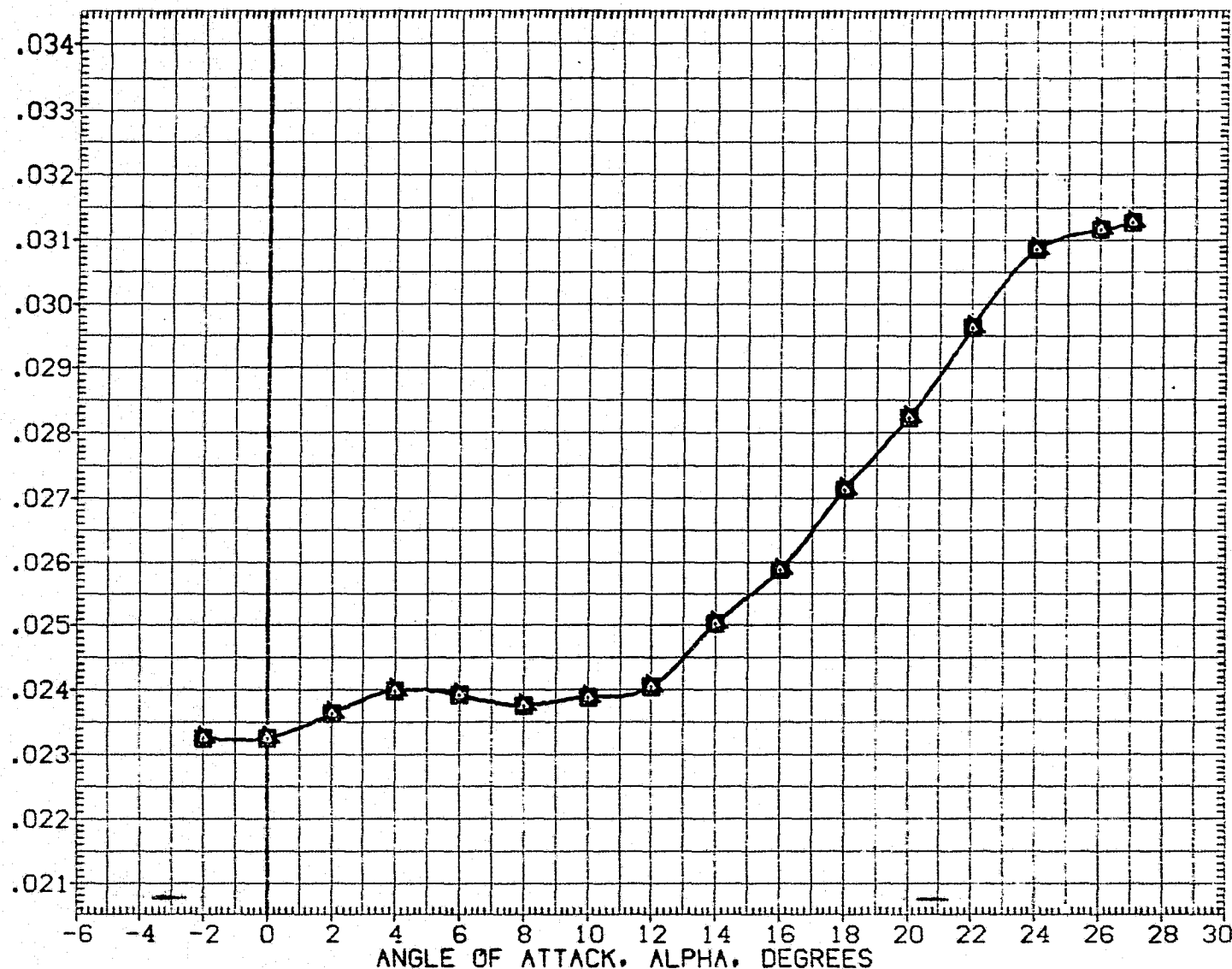


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(A)MACH = 2.00

PAGE 104

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO20)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO25)	◇	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO27)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO29)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

SIDE FORCE COEFFICIENT, CY

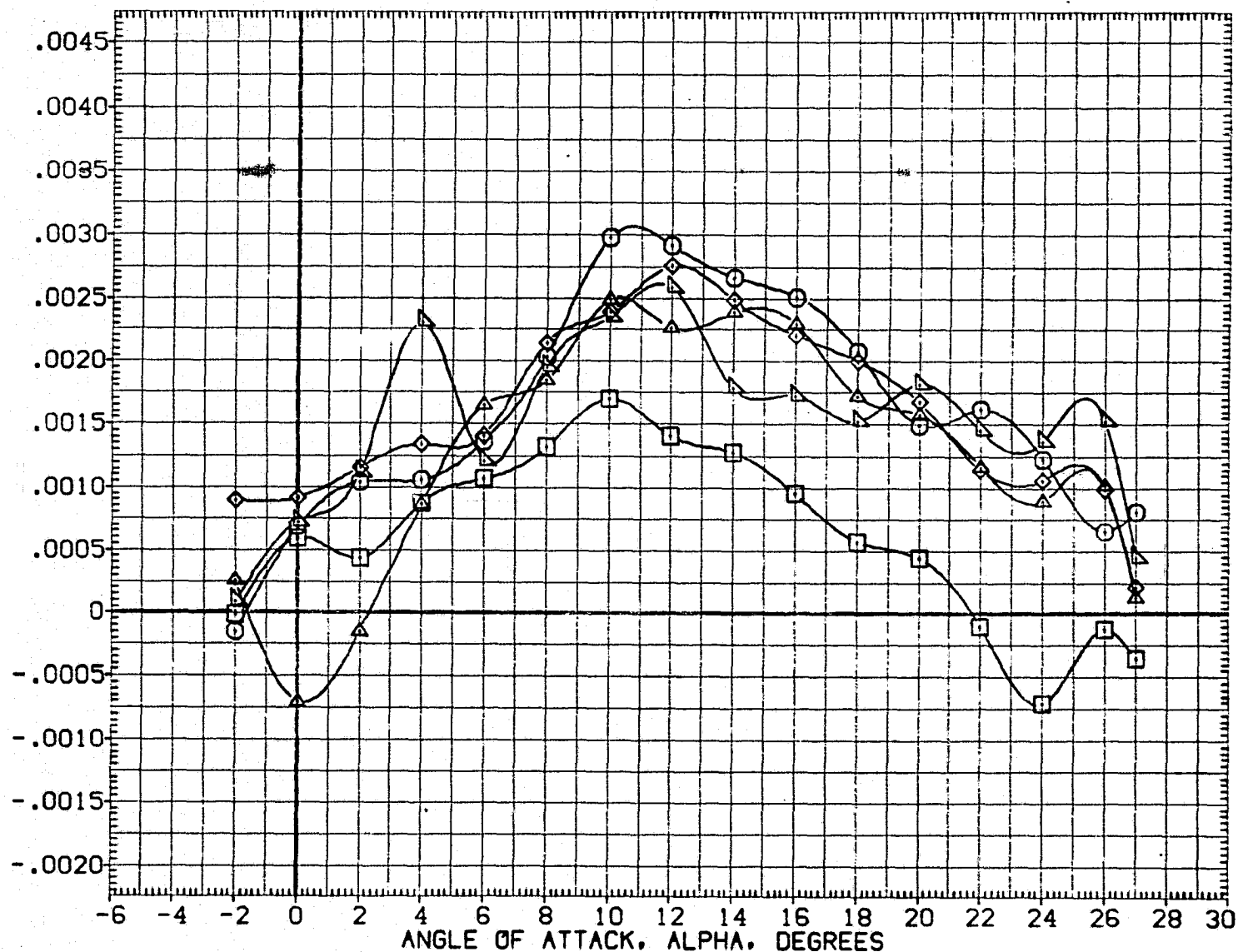


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LD	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	59. FT.
(BTVO20)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN. X0
(BTVO29)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN. Y0
						ZMRP	375.0000	IN. Z0
						SCALE	.0150	

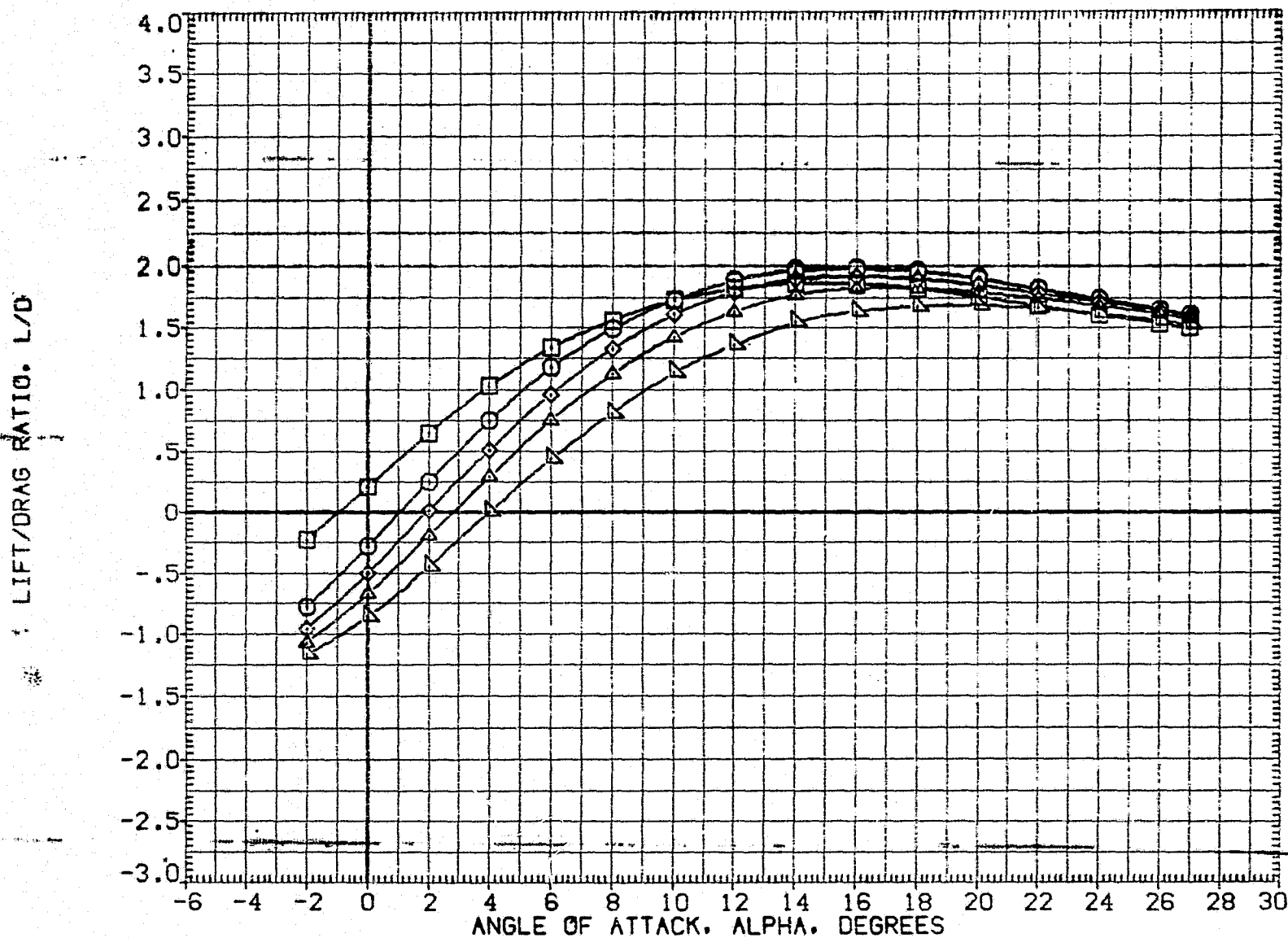


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTVO05)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO20)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO25)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO27)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO29)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
20.000	20.000	20.000	20.000	LREF	474.8100 IN.
-10.000	-10.000	-10.000	-10.000	BREF	936.6800 IN.
-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800 IN.X0
-40.000	-40.000	-40.000	-40.000	YMRP	.0000 IN.Y0
				ZMRP	375.0000 IN.Z0
				SCALE	.0150

CENTER OF PRESSURE LOCATION-AS A FRACTION OF BODY LENGTH.

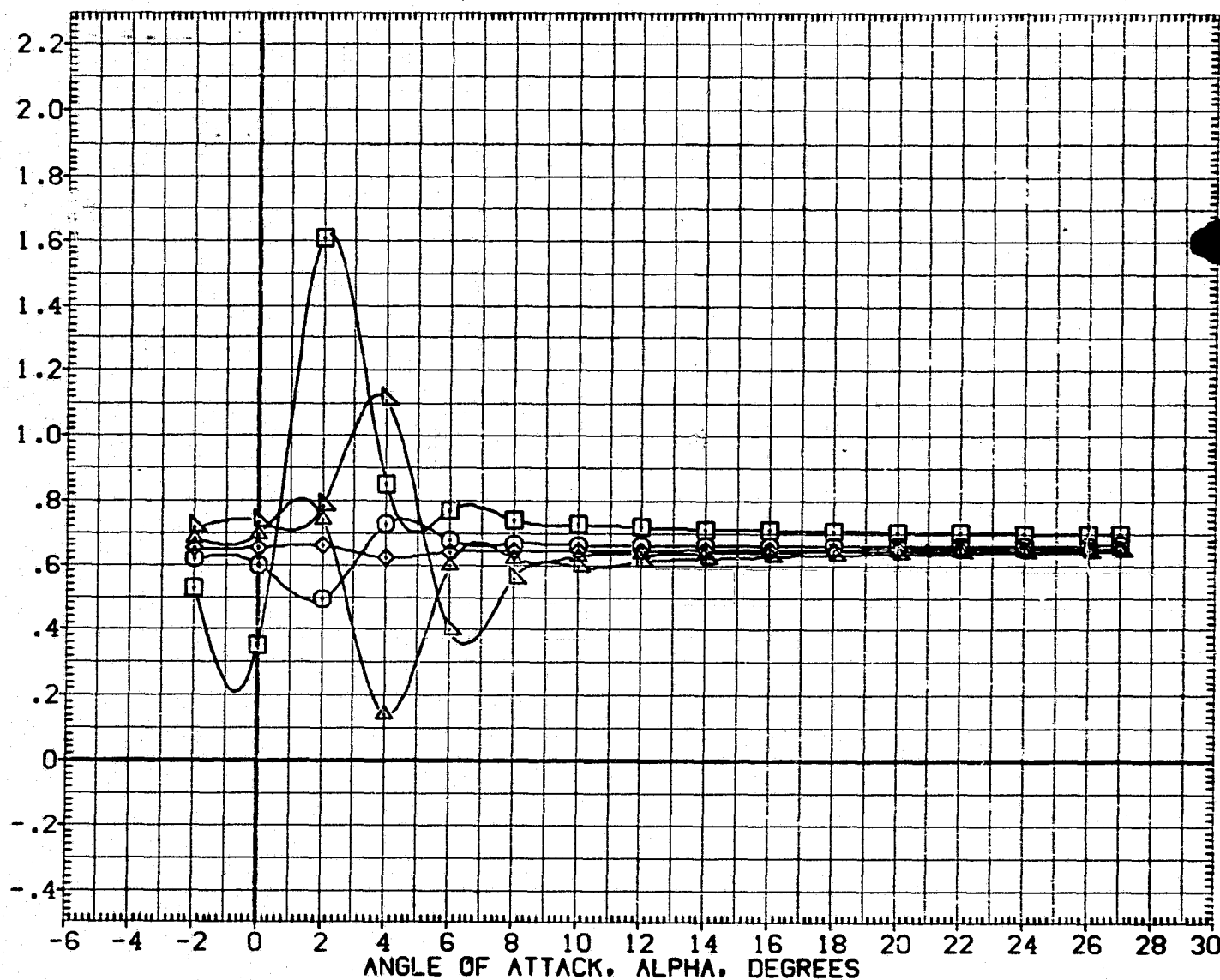


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BTVO05)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO20)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO25)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO27)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO29)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SO.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

AXIAL FORCE COEFFICIENT, C_A

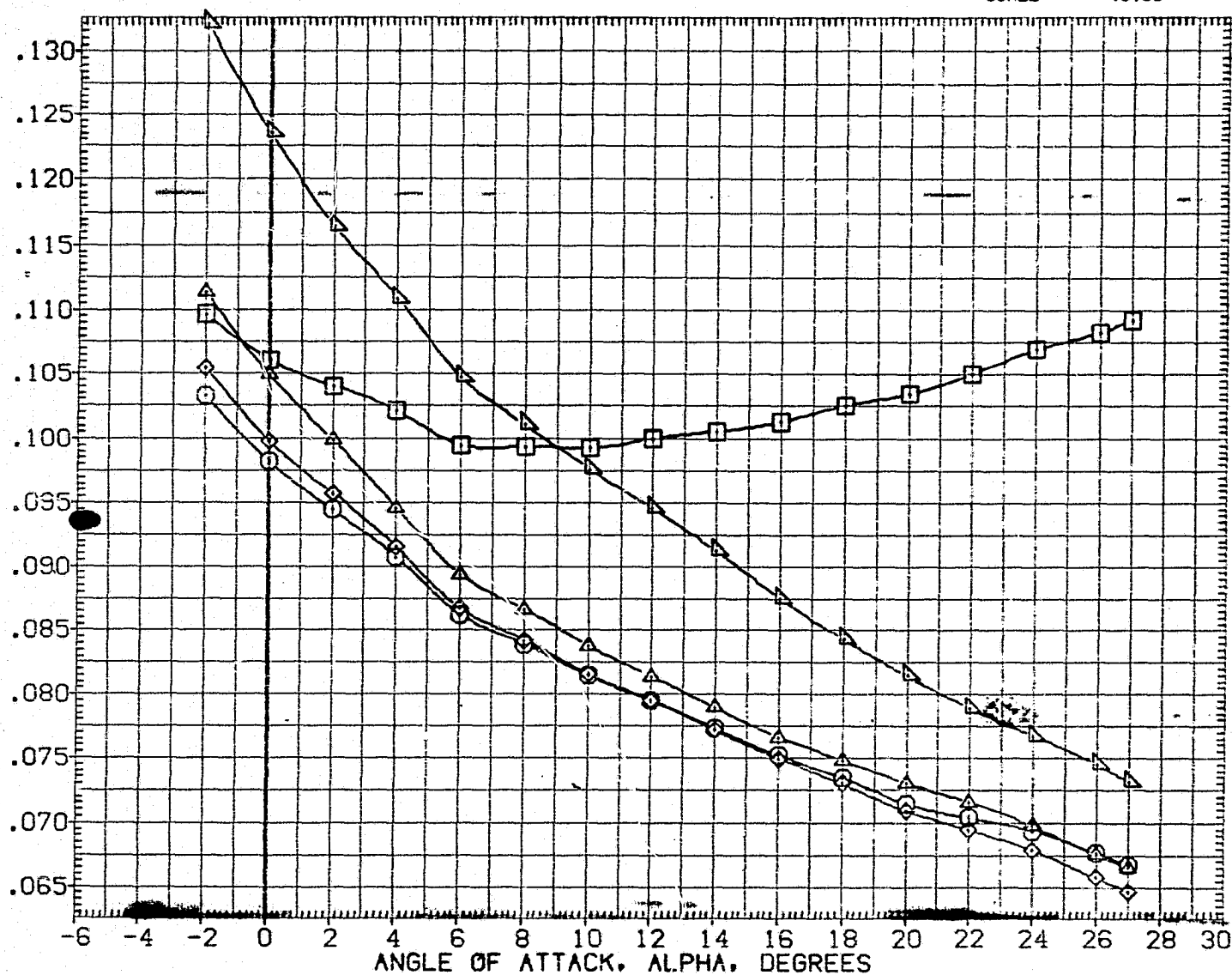


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO20)	○	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO25)	×	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO27)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO29)	▽	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

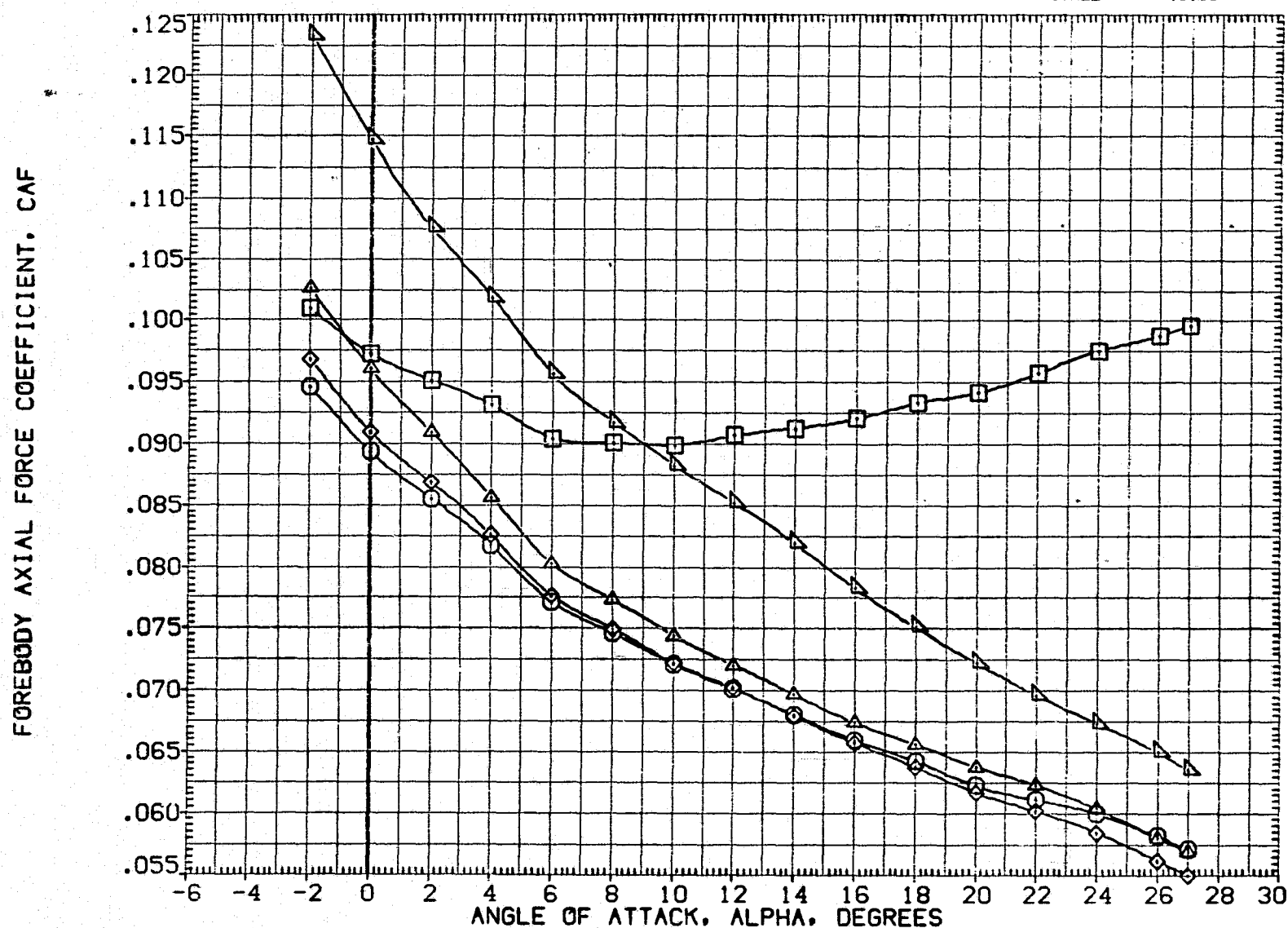


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(BTVO20)		20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)		-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)		-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTVO29)		-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

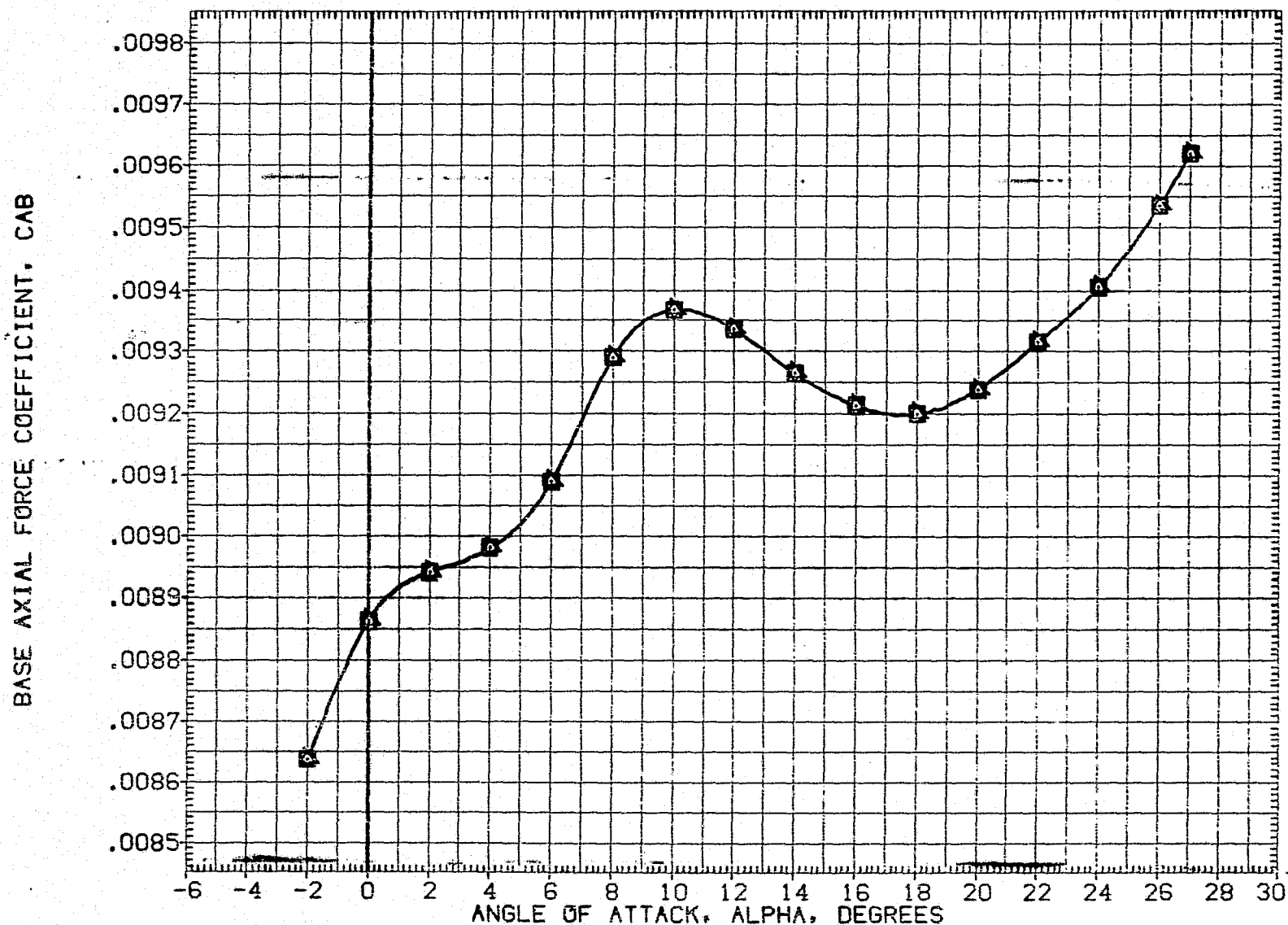


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO20)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6900	IN.X0
(BTVO29)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

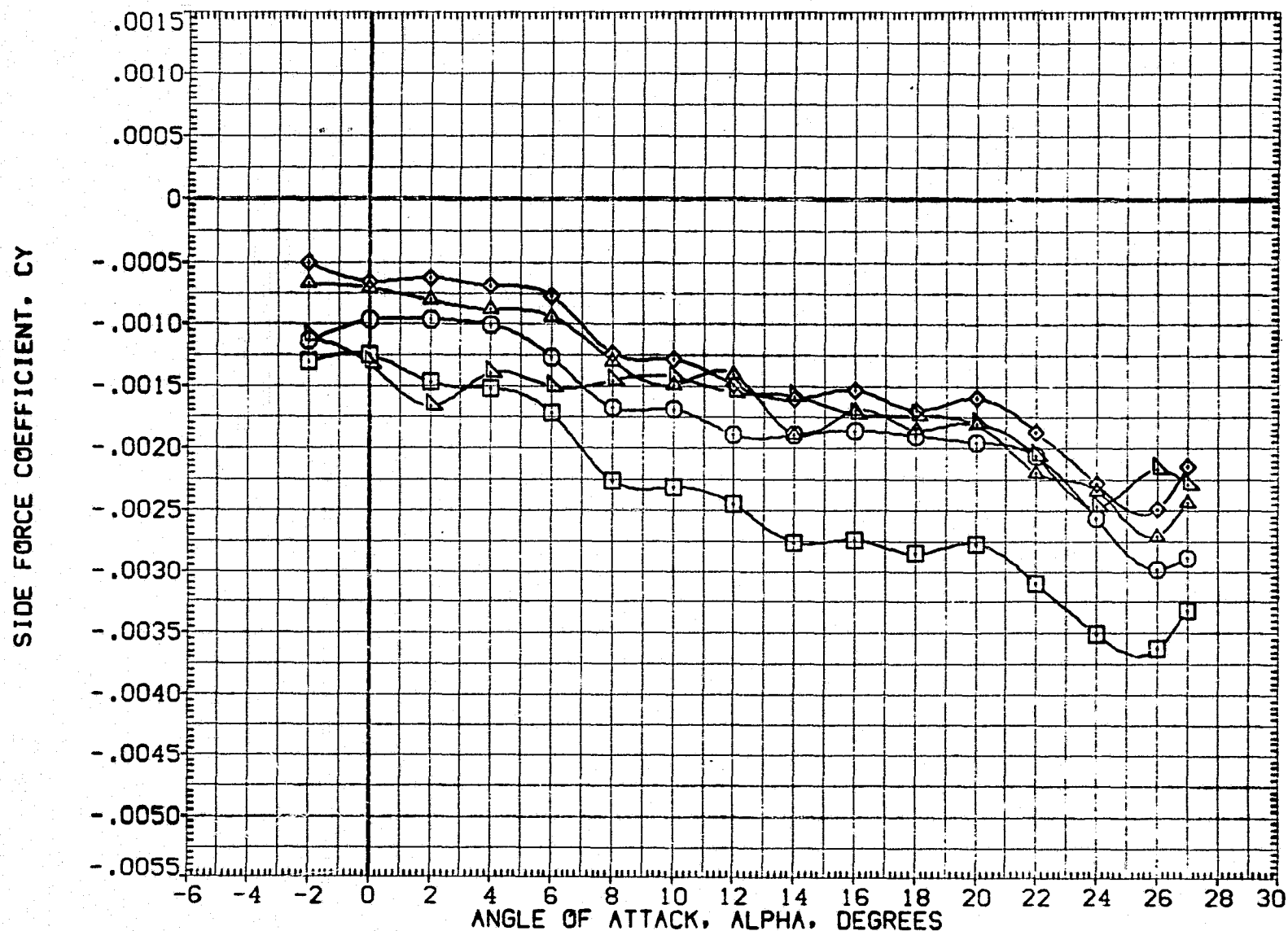


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO20)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTVO29)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

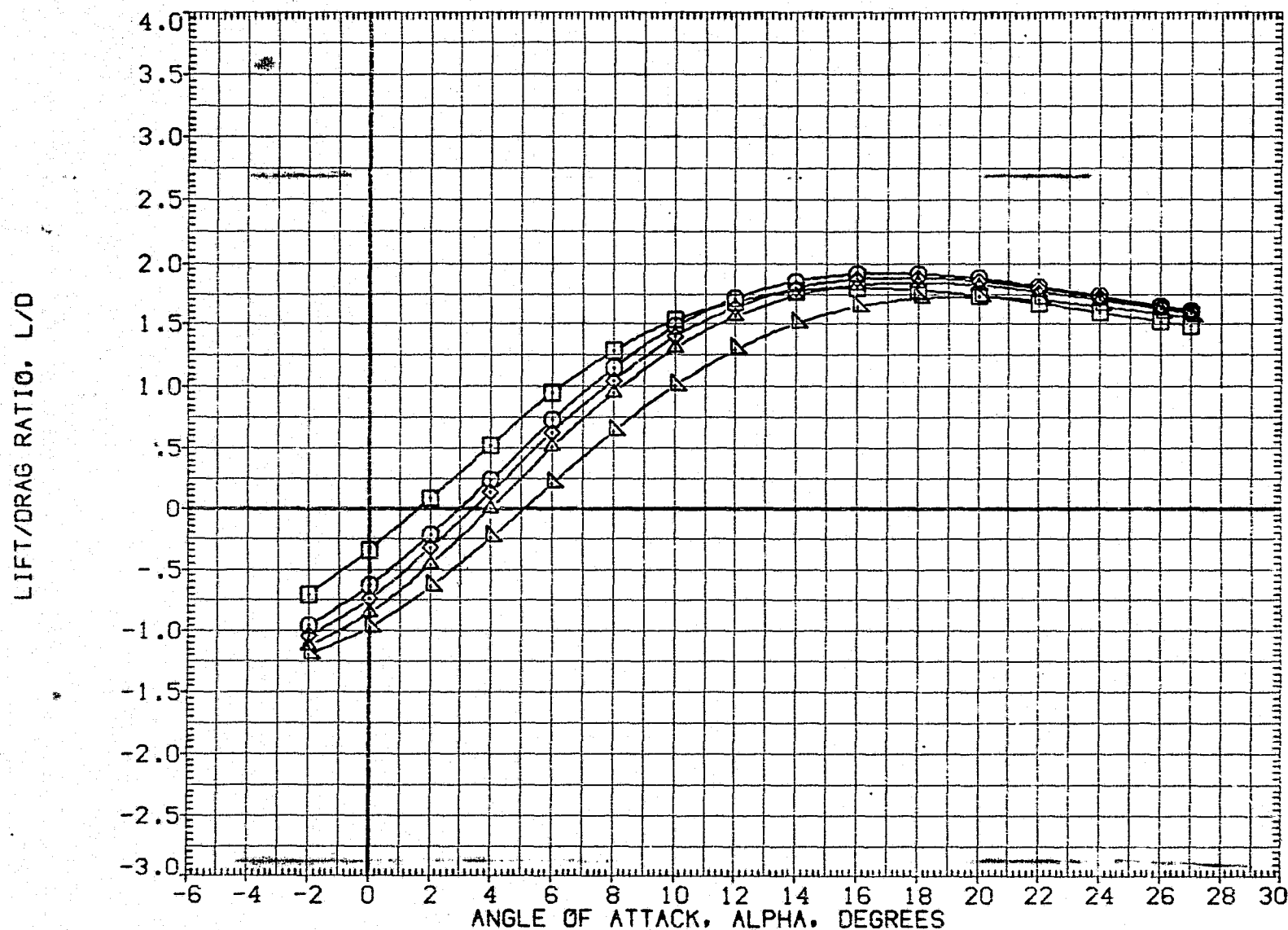


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

CENTER OF PRESSURE LOCATION-AS A FRACTION OF BODY LENGTH.

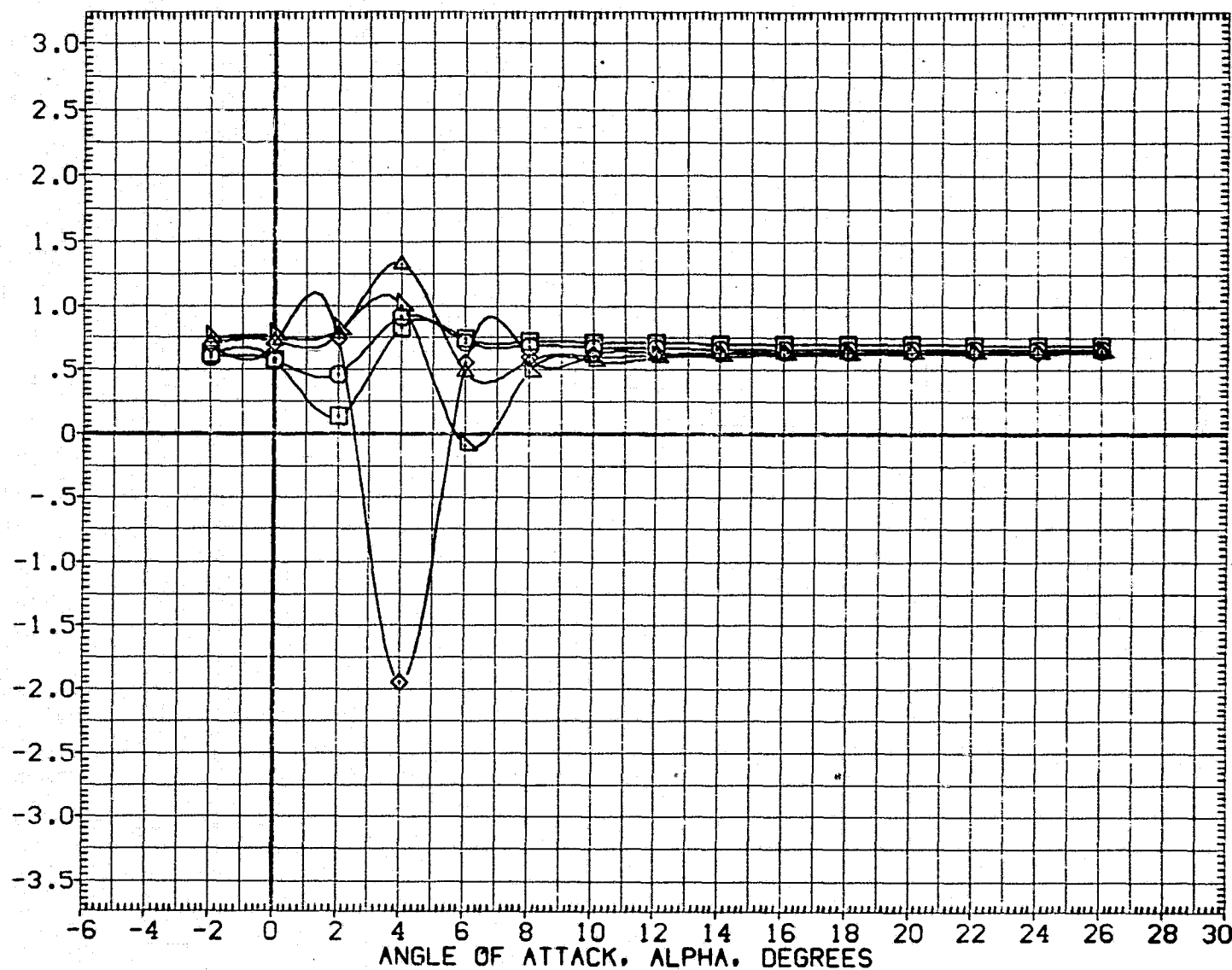


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BT005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BT020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BT025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BT027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BT029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

AXIAL FORCE COEFFICIENT, C_A

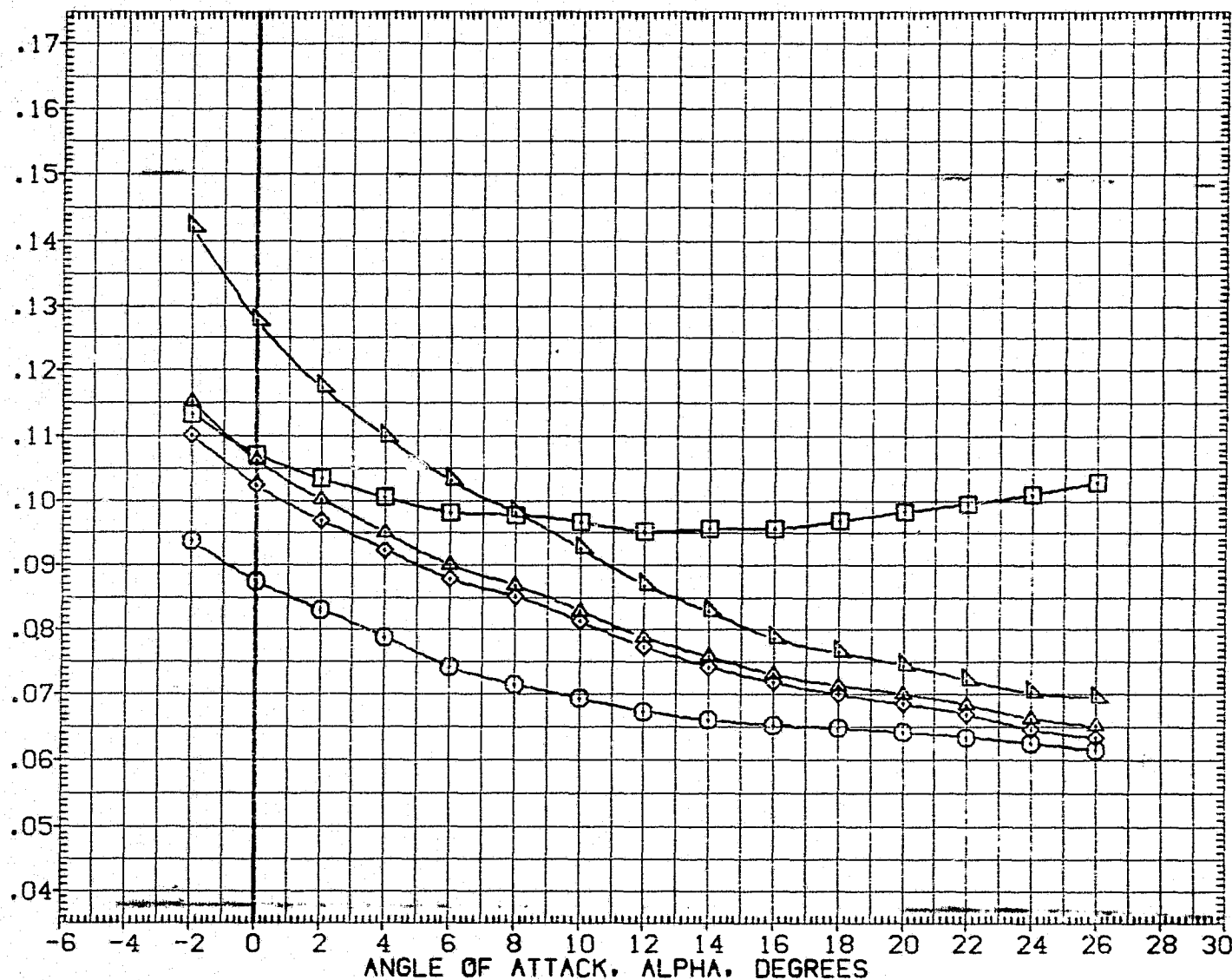


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO20)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO25)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO27)	×	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO29)	▽	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

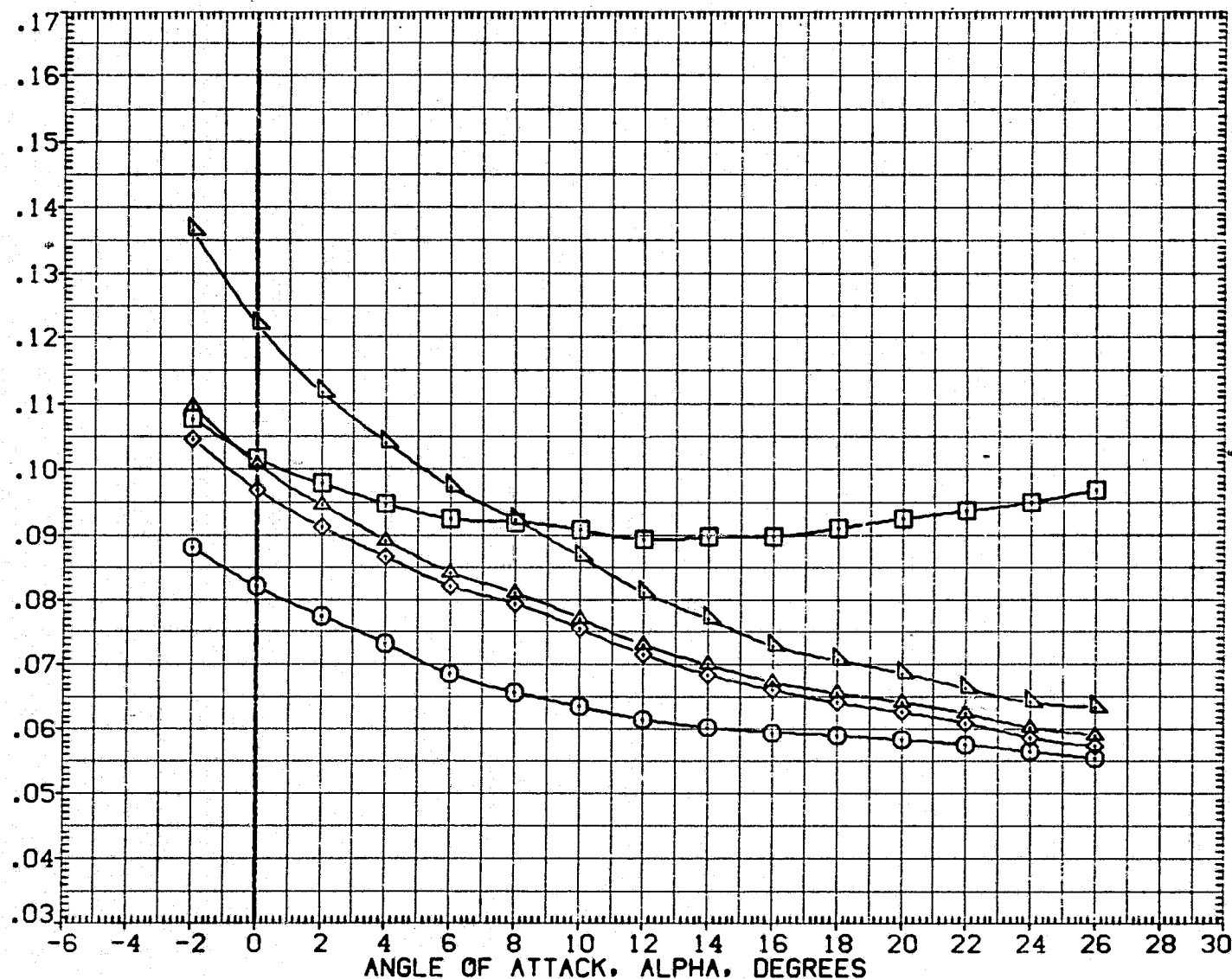


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(COMACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(BTVO20)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(BTVO25)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRF	1076.6800	IN.X0
(BTVO29)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

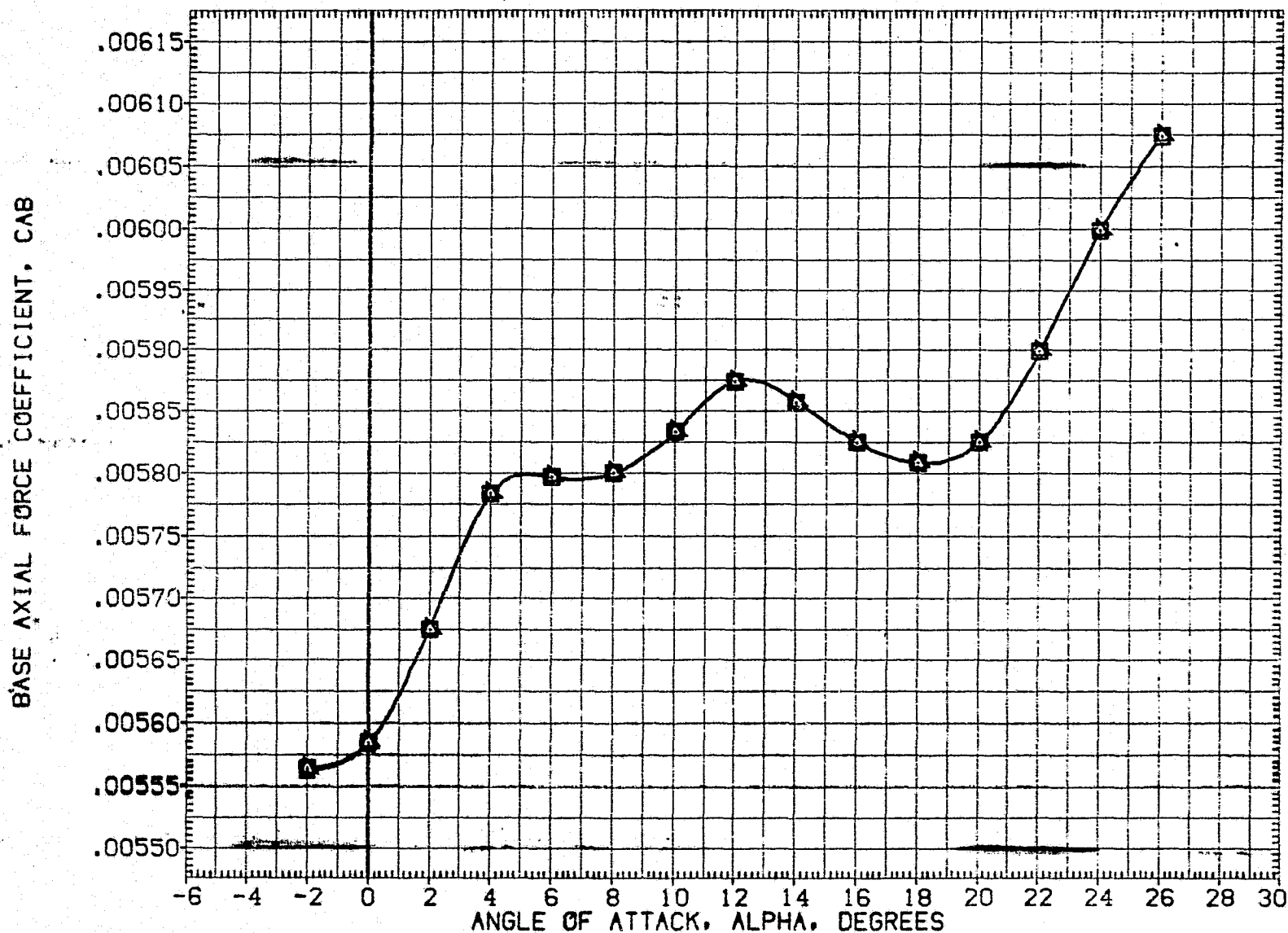


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO05)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	W116
(BTVO20)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	W116
(BTVO25)	×	0A115	B26	C9	E43	F8	M16	N28	R5	V8	W116
(BTVO27)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	W116
(BTVO29)	△	0A115	B26	C9	E43	F8	M16	N29	R5	V8	W116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

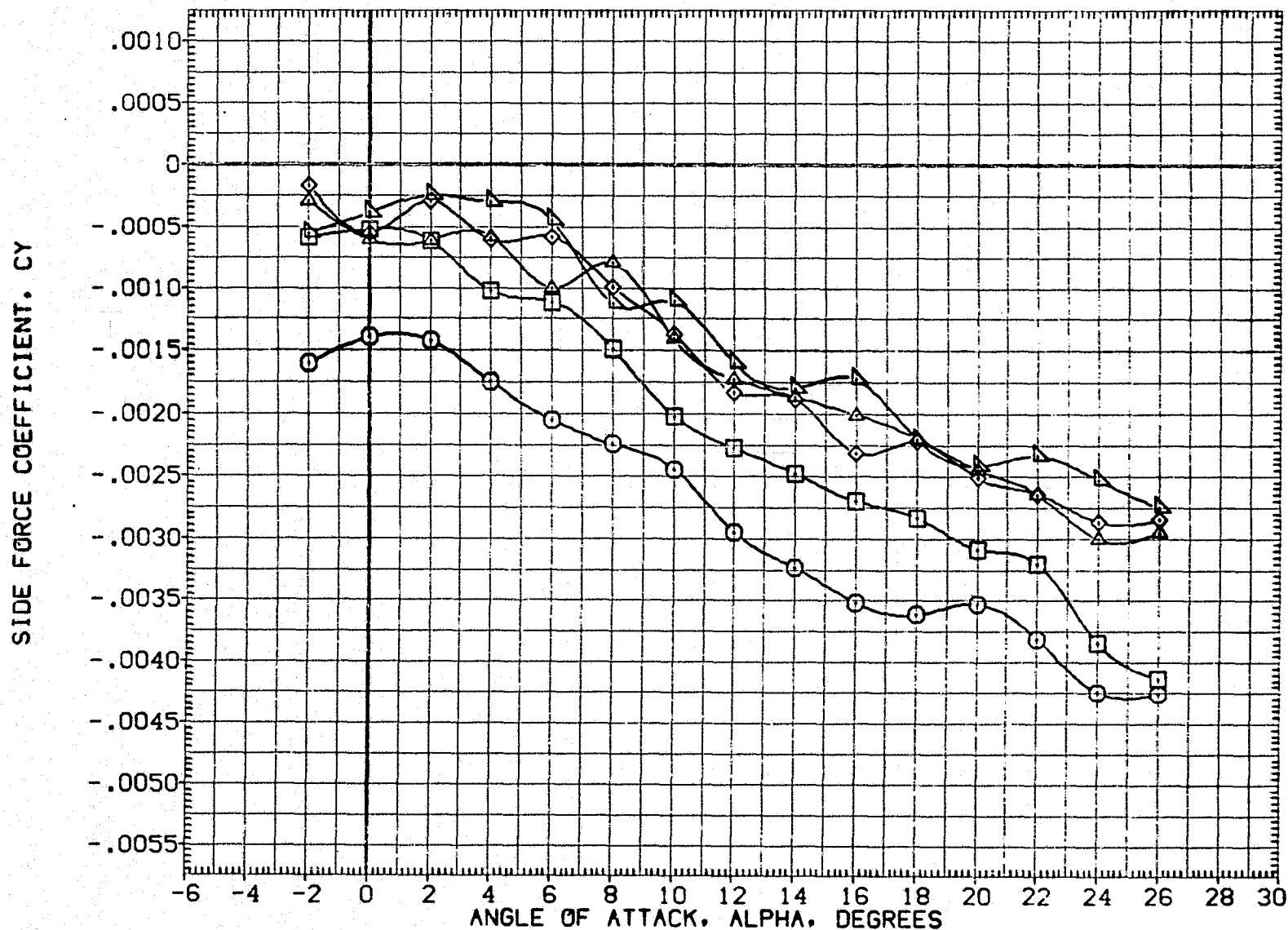


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO05)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	SREF	2690.0000	SG.FT.
(BTVO20)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	20.000	20.000	20.000	20.000	LREF	474.9100	IN.
(BTVO25)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(BTVO27)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(BTVO29)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

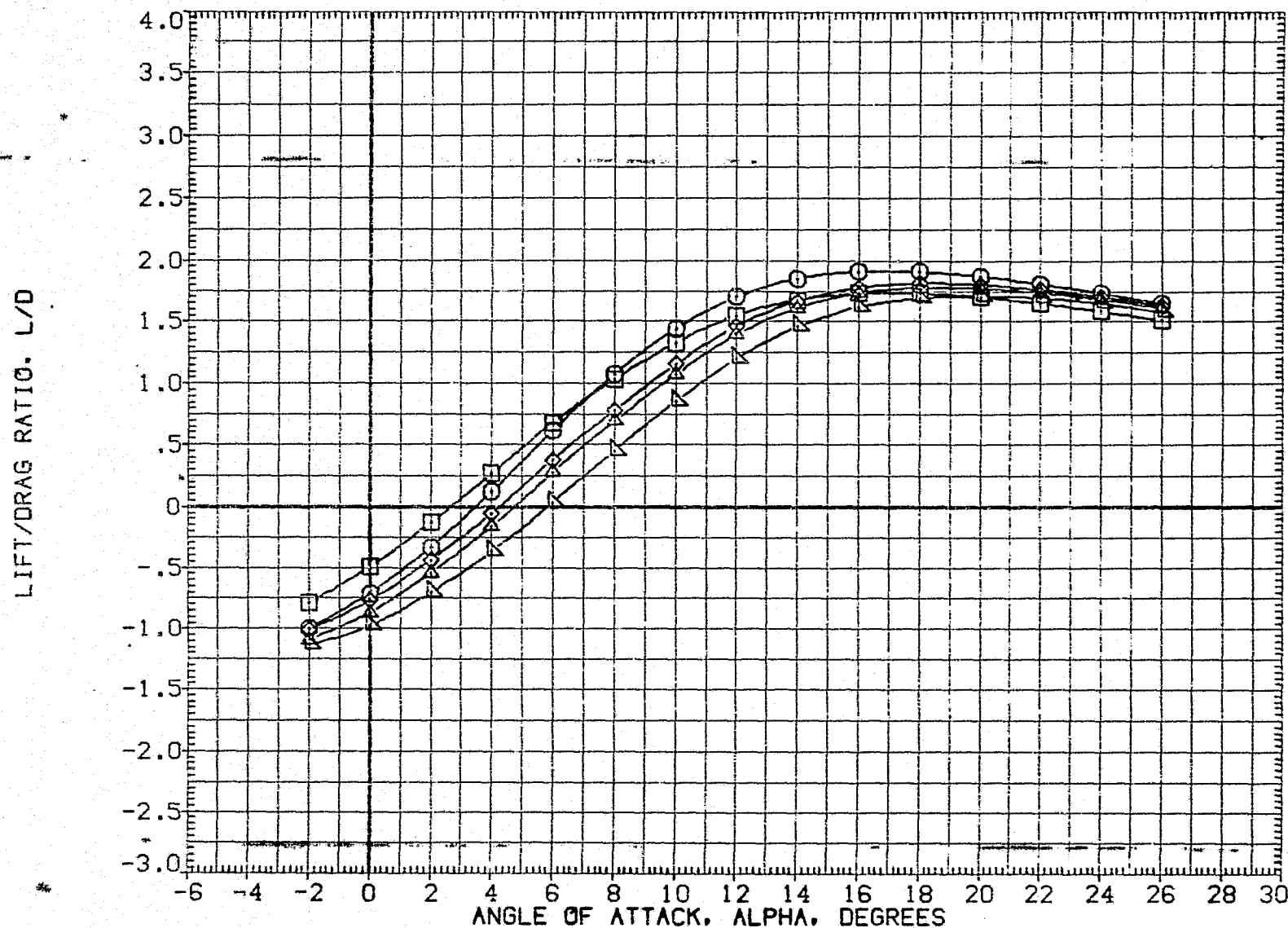


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(RTV020)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(RTV025)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(RTV027)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(RTV029)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

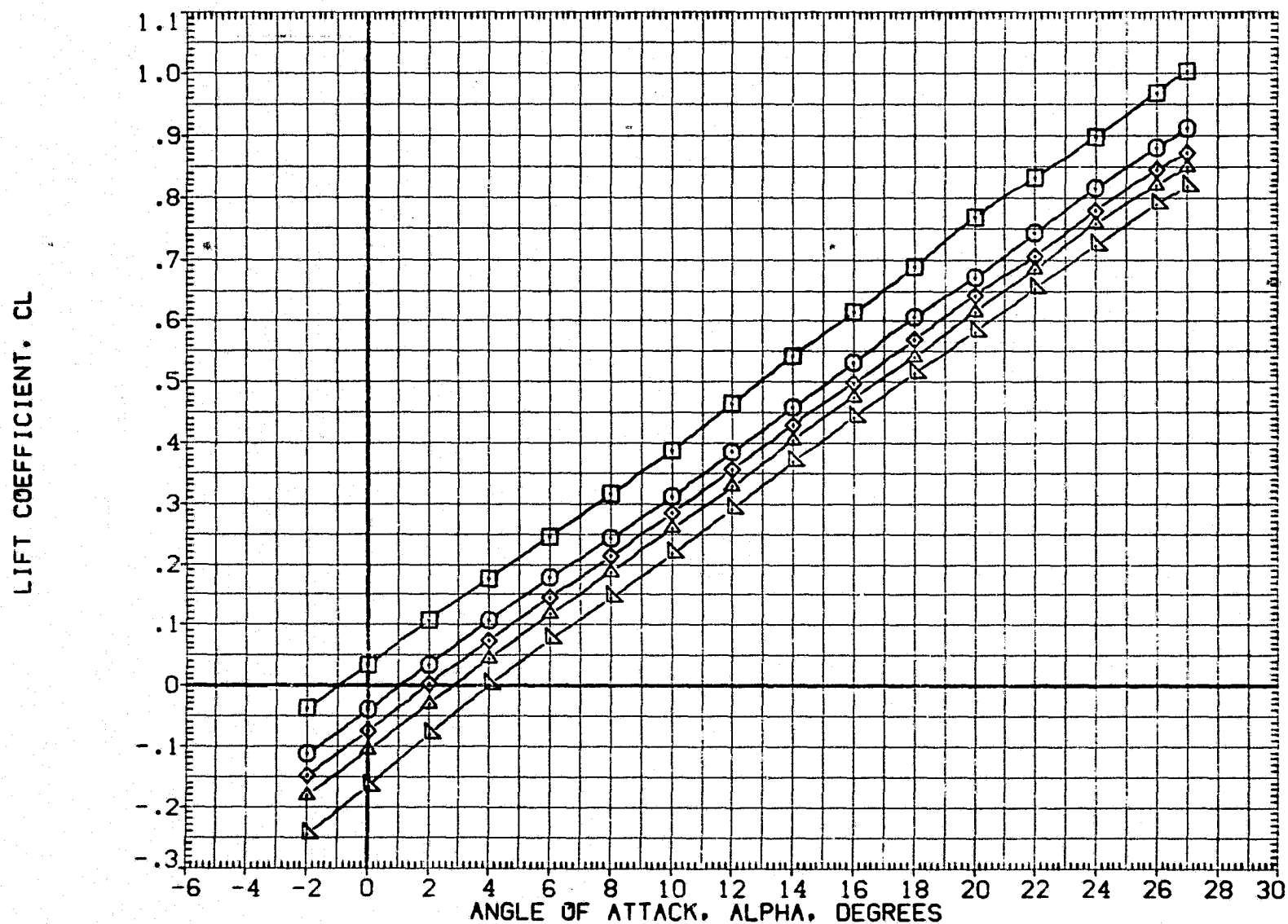


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SG.FT.
(RTV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(RTV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(RTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6600	IN.X0
(RTV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

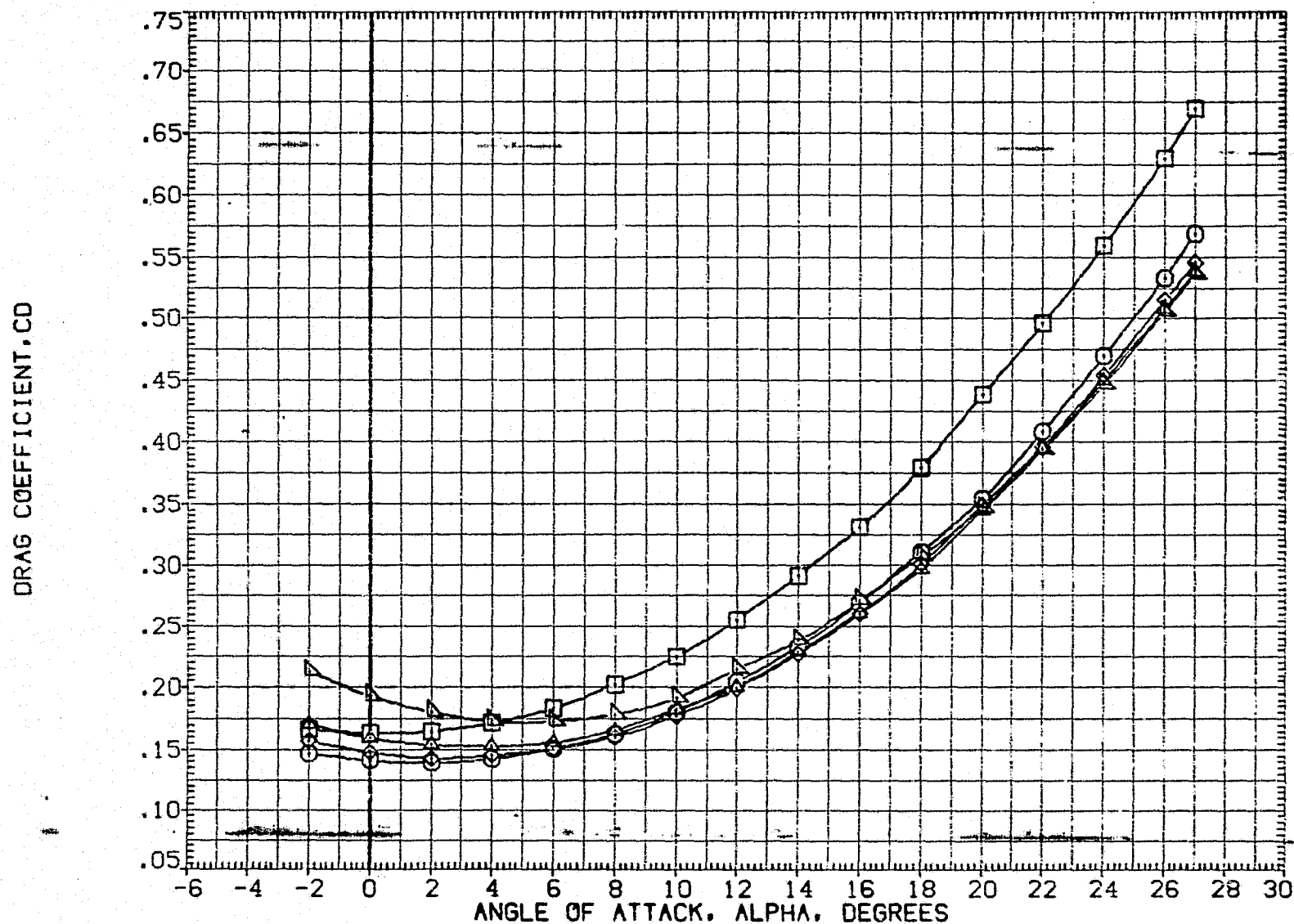


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(A) MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTV005)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV020)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV025)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV027)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV029)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
20.000	20.000	20.000	20.000	LREF	474.8100 IN.
-10.000	-10.000	-10.000	-10.000	BREF	936.6800 IN.
-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800 IN.X0
-40.000	-40.000	-40.000	-40.000	YMRP	.0000 IN.Y0
				ZMRP	375.0000 IN.Z0
				SCALE	.0150

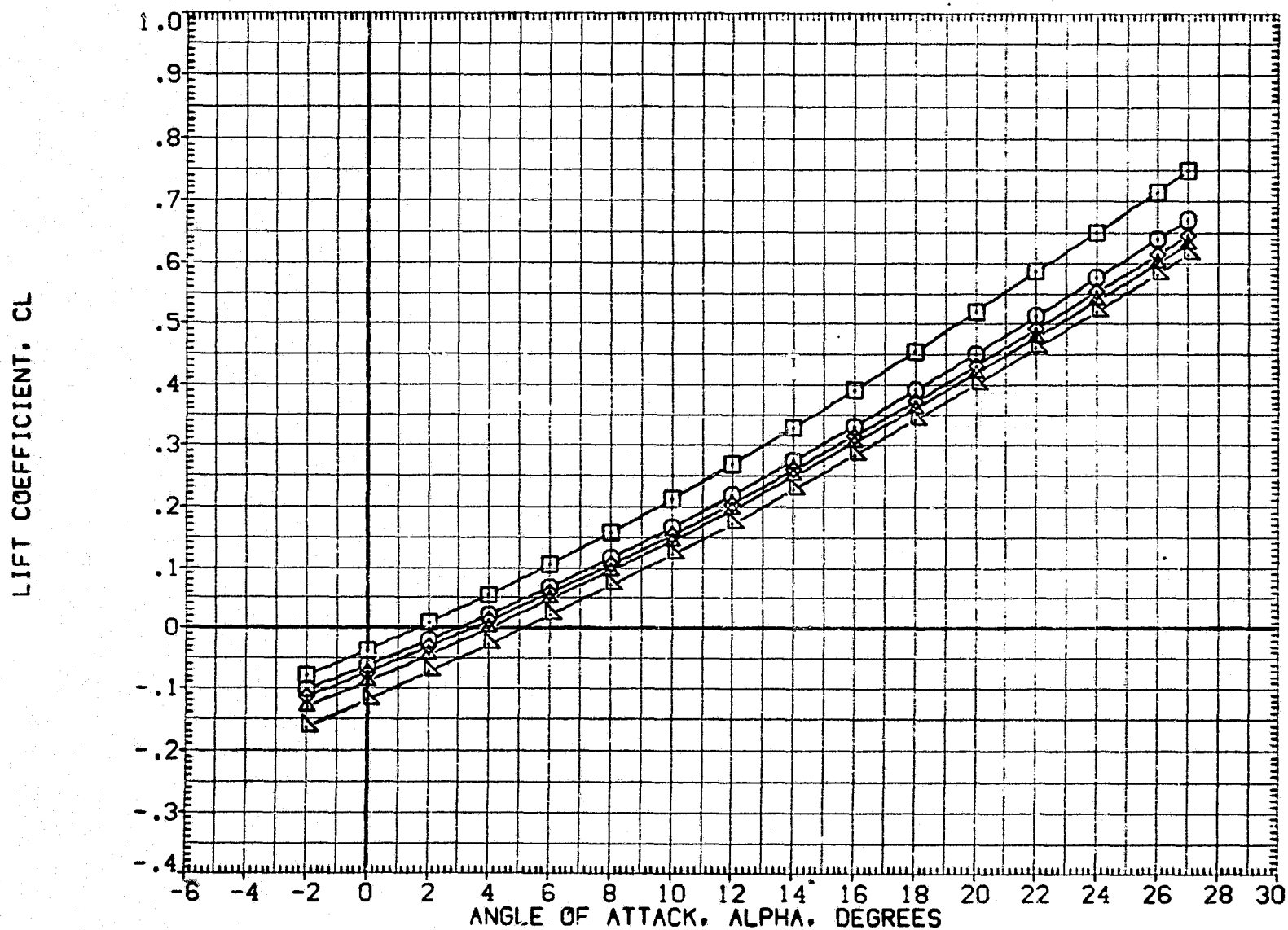


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(RTV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(RTV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(RTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(RTV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

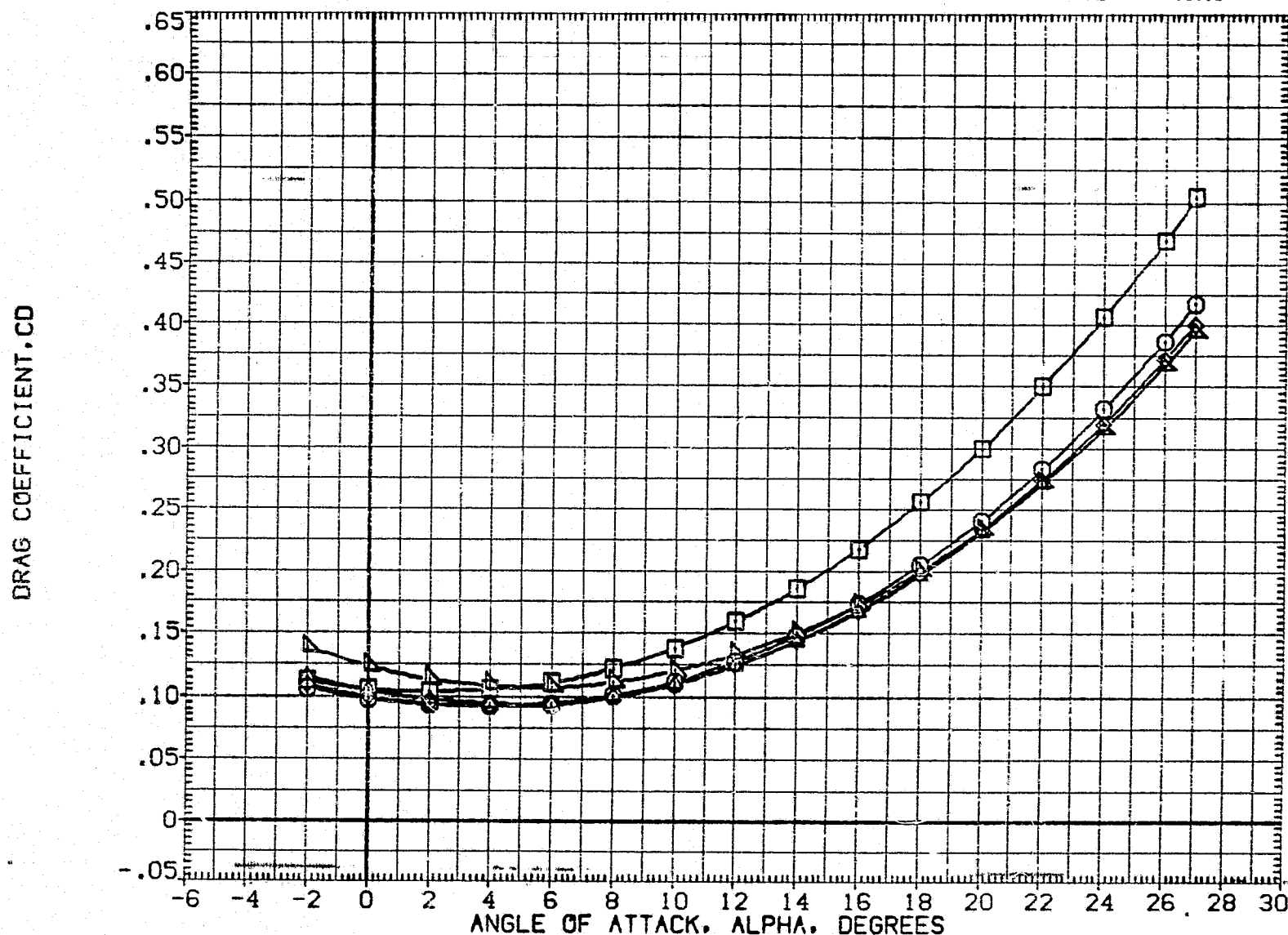


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION		
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(RTV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(RTV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(RTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(RTV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

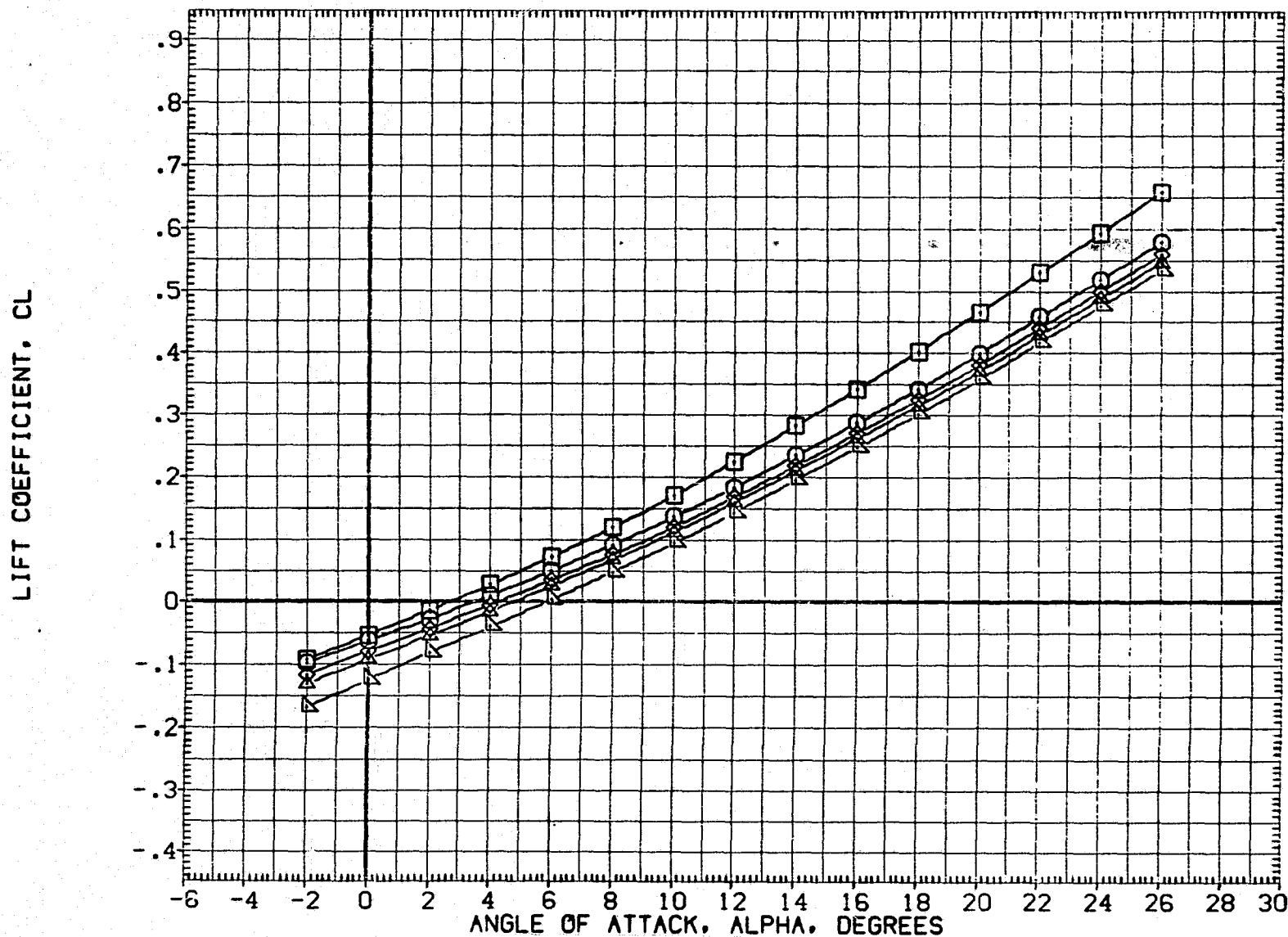


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
 (C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(RTV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(RTV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(RTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(RTV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

DRAG COEFFICIENT, CD

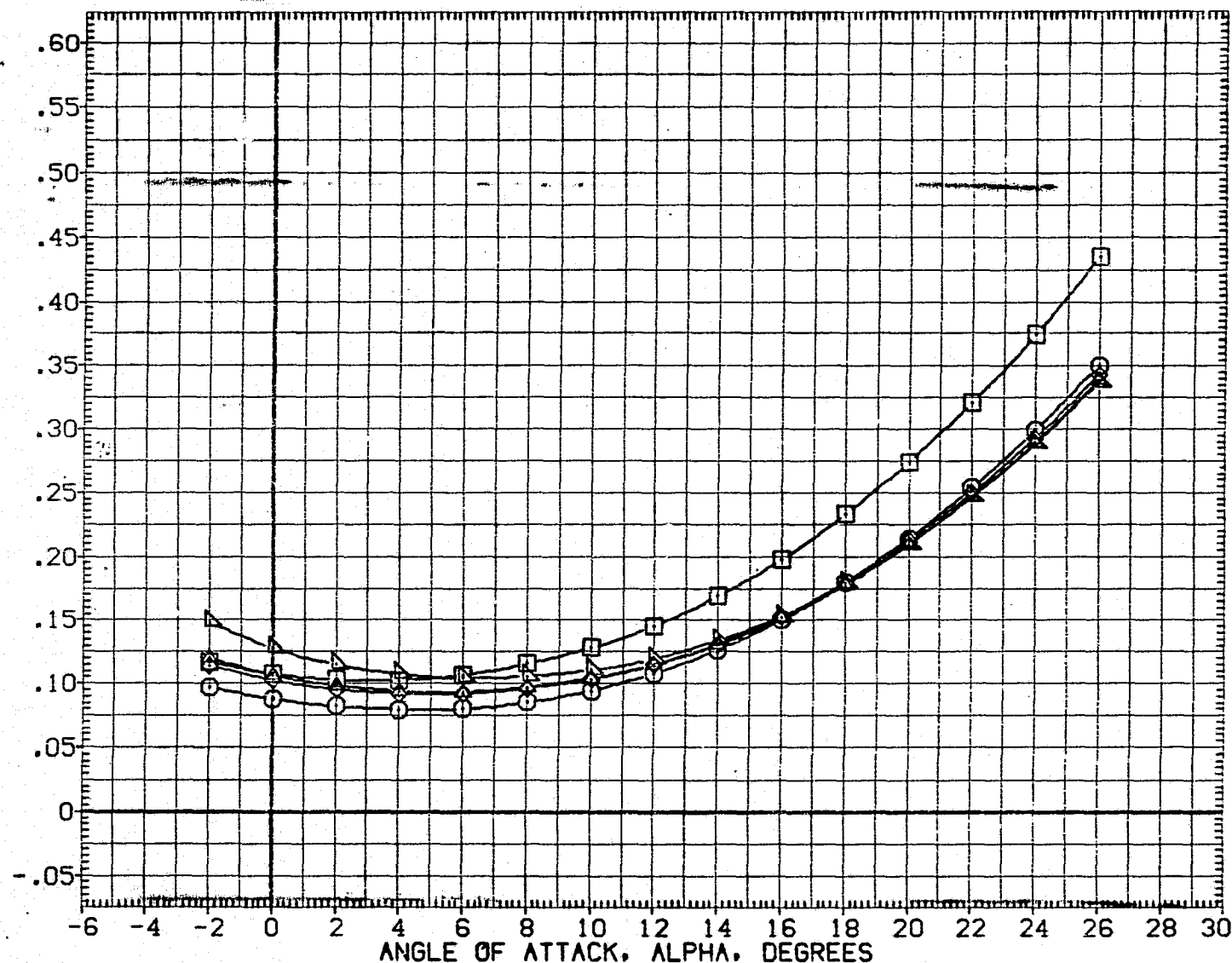


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(RTV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(RTV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(RTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(RTV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

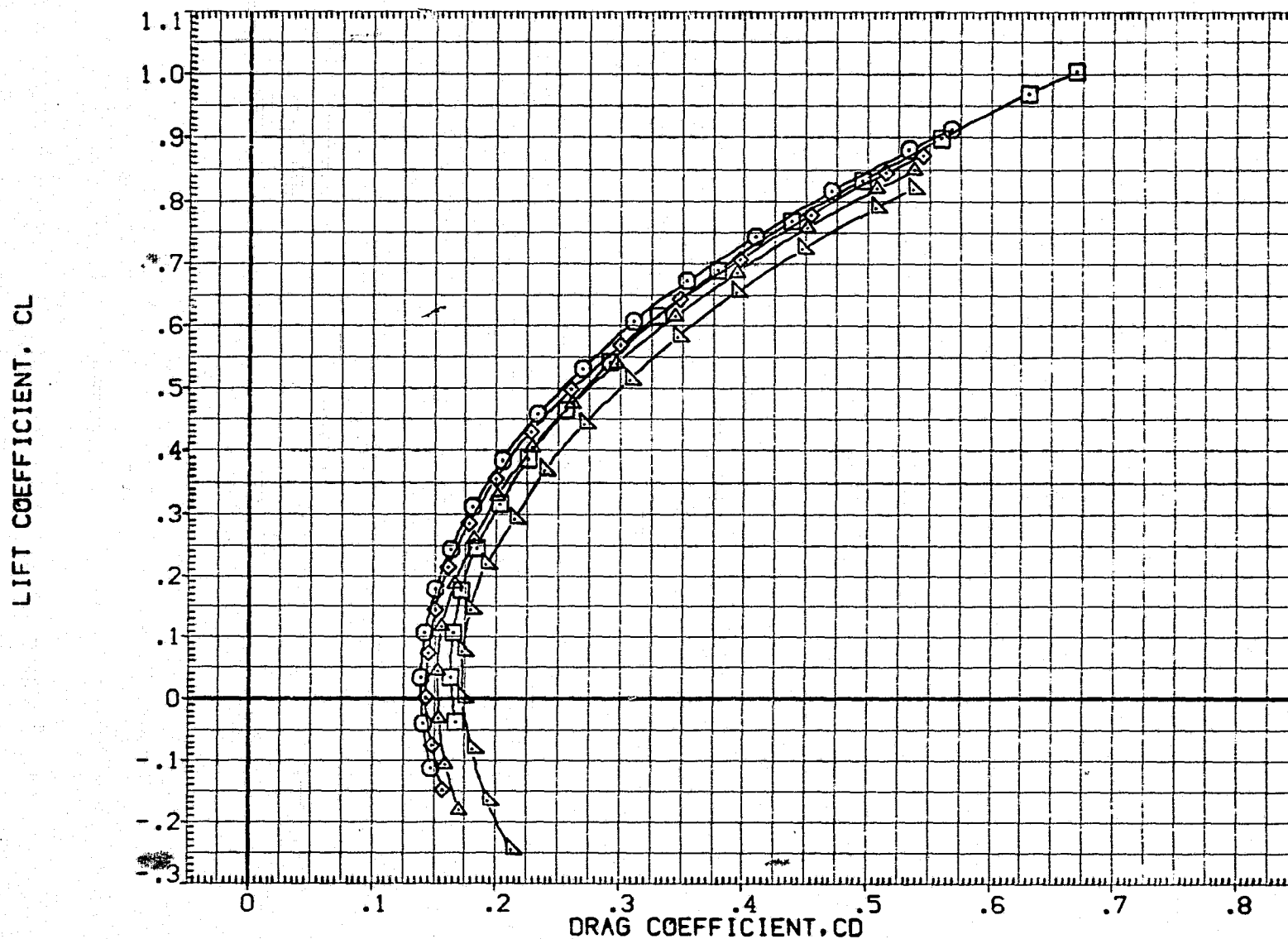


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(A) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(RTV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(RTV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(RTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(RTV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	375.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

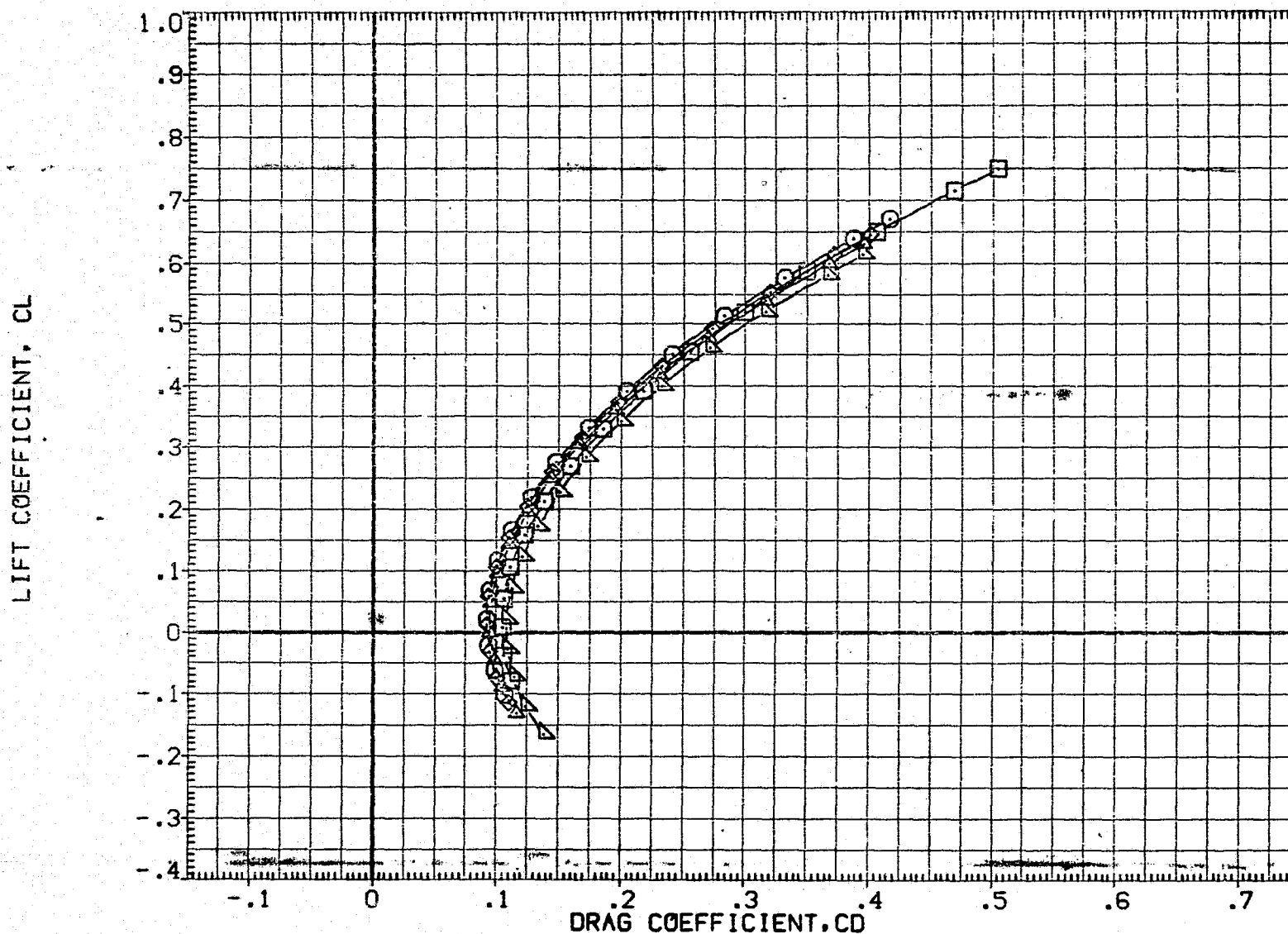


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(RTV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(RTV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(RTV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	YMRP	1076.6800	IN.X0
(RTV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

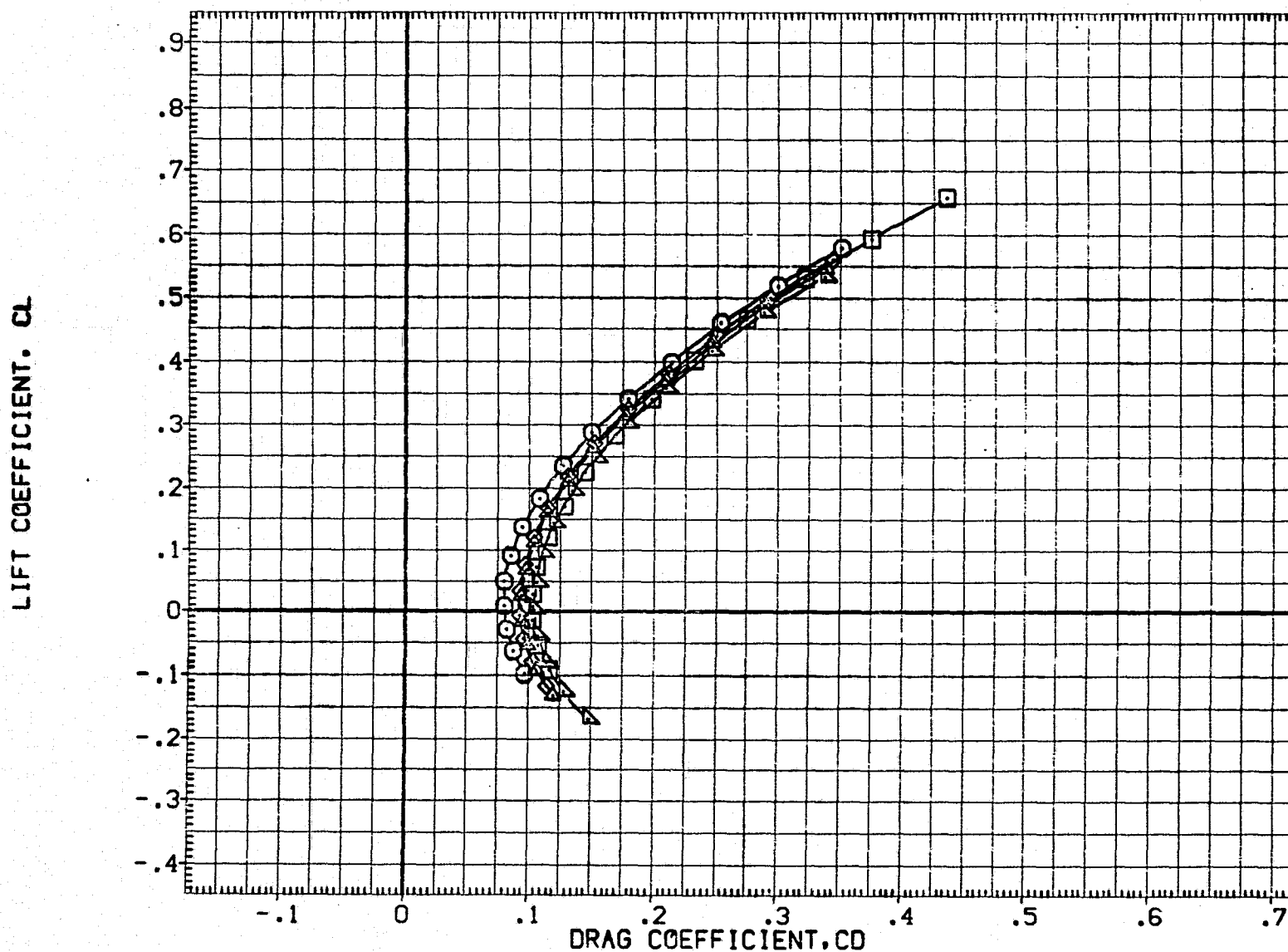


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV005)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(ATV020)	◇	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(ATV025)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(ATV027)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(ATV029)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

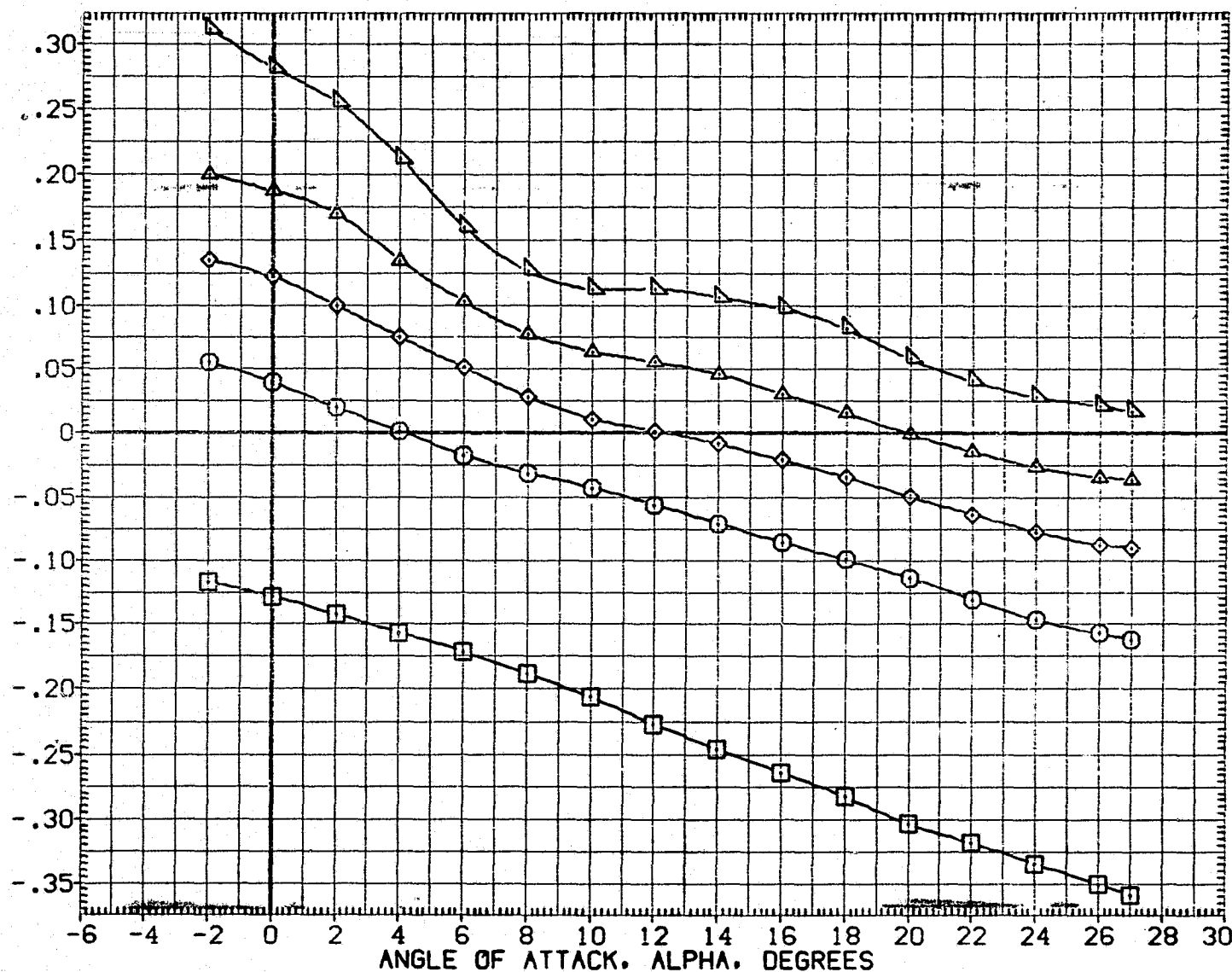


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV005)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV020)	○	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV025)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV027)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV029)	▽	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

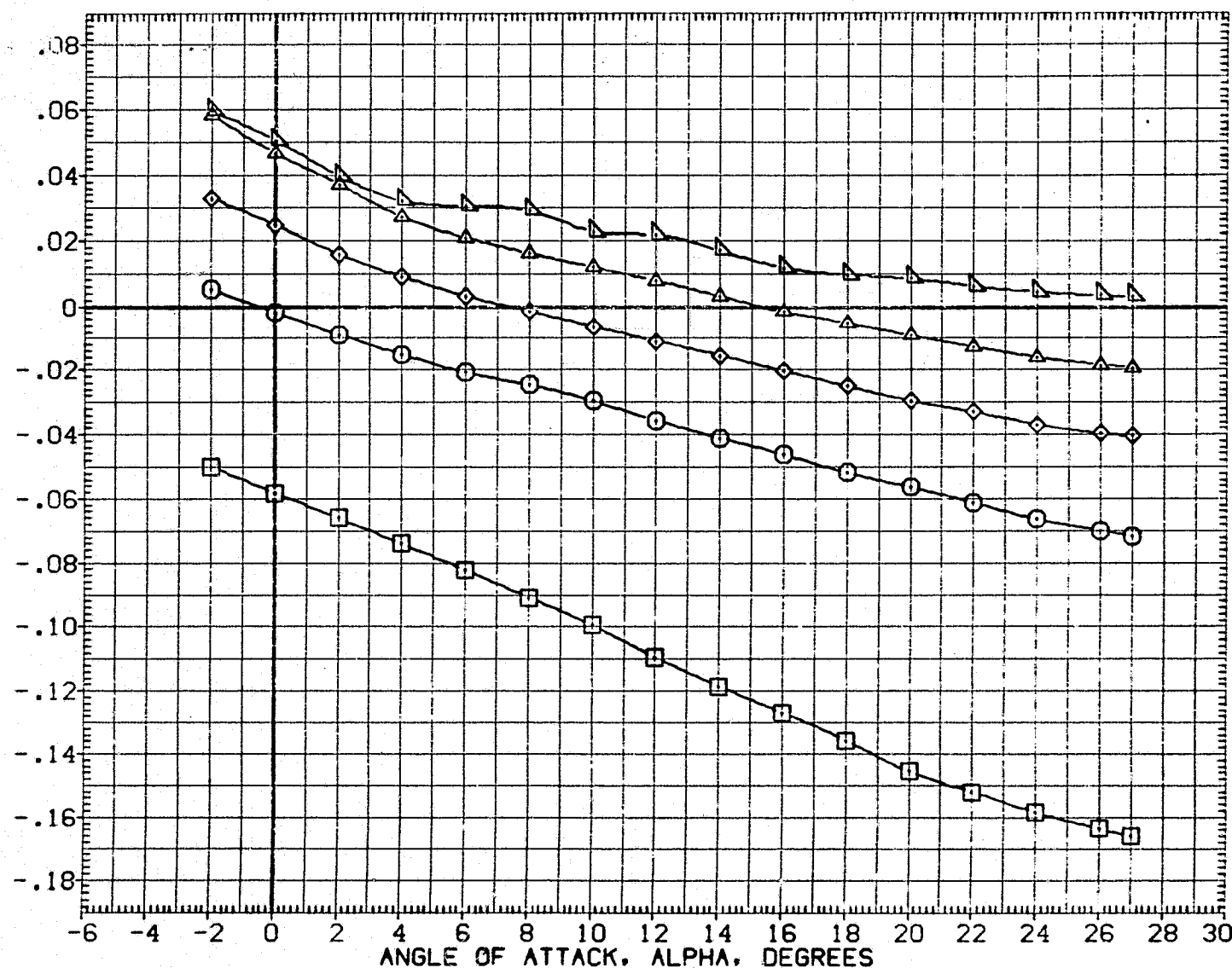


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV005)	QA115 826 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(ATV020)	QA115 826 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(ATV025)	QA115 826 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(ATV027)	QA115 826 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(ATV029)	QA115 826 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

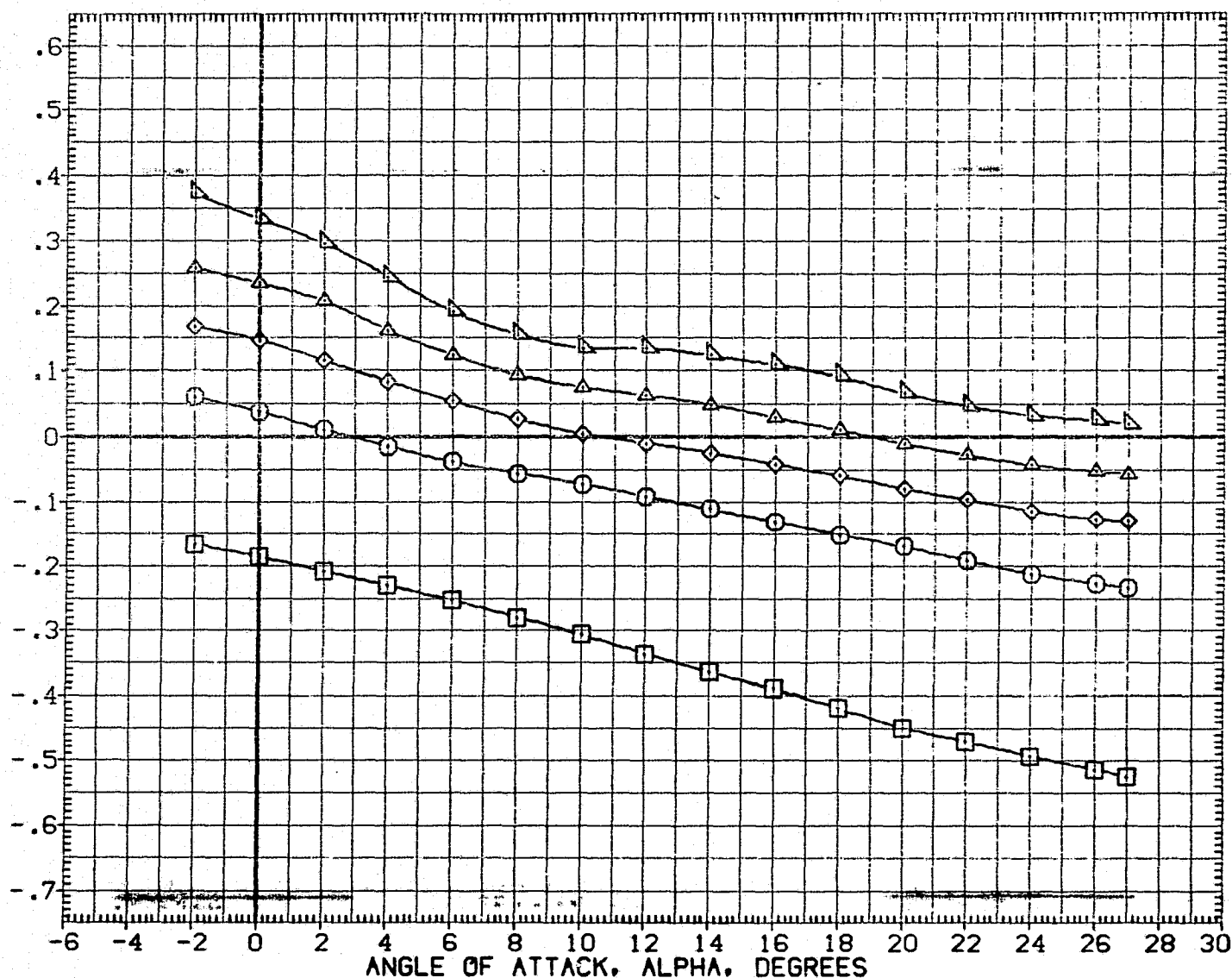


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV005)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV020)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV025)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV027)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV029)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

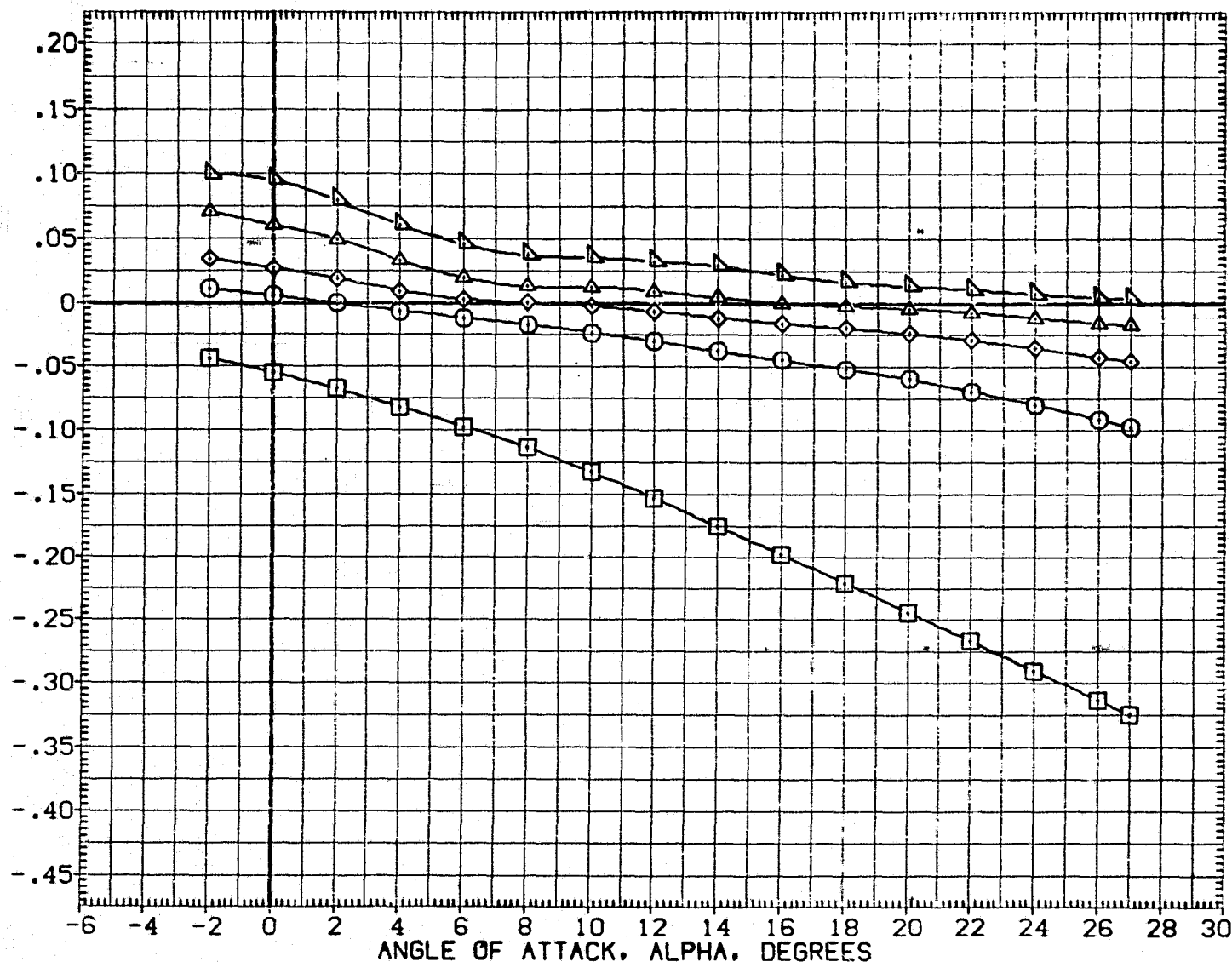


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV005)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(ATV020)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(ATV025)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(ATV027)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(ATV029)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT - CHEO

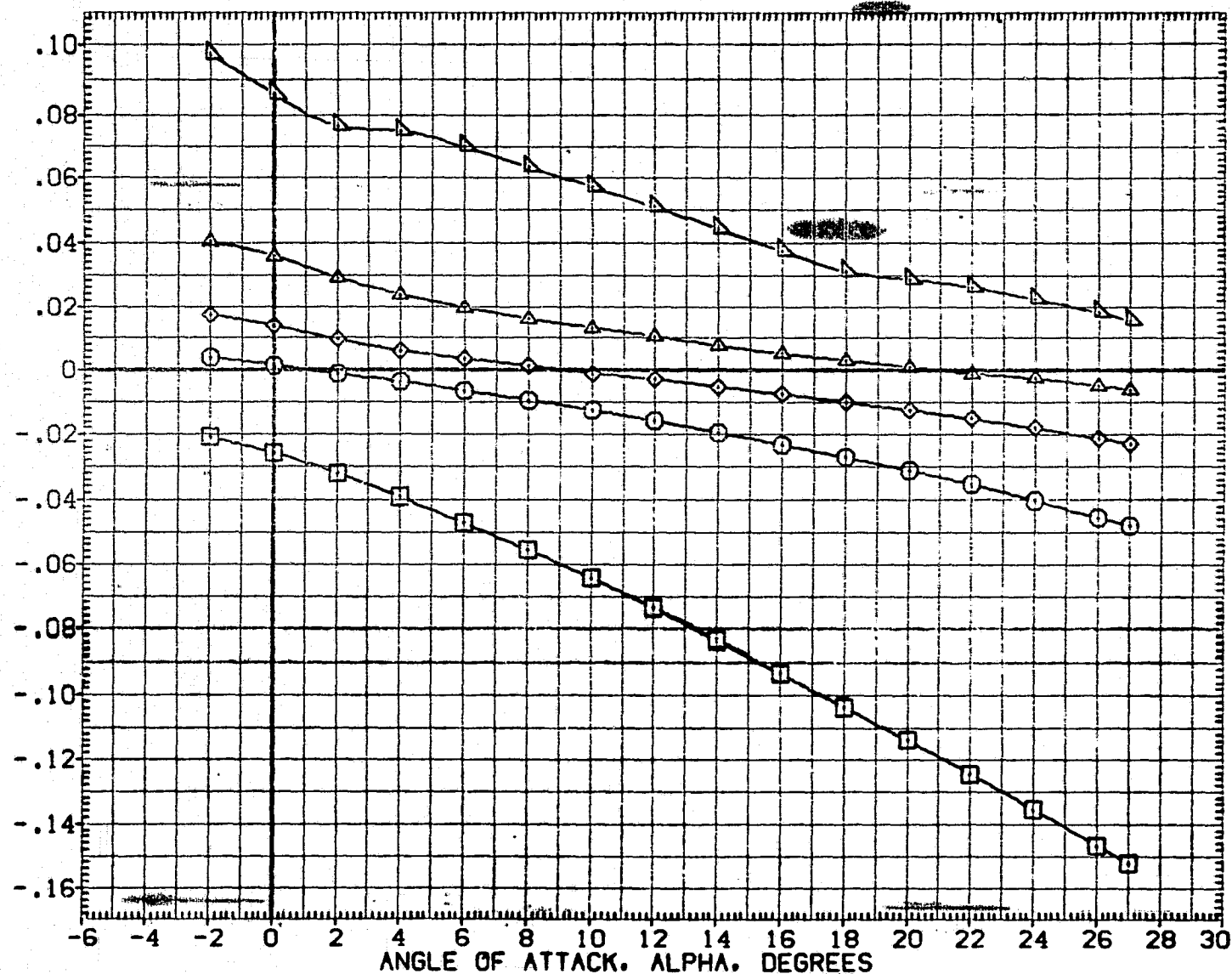


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
(ATV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(ATV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(ATV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(ATV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHEI (CHEI + CHEO)

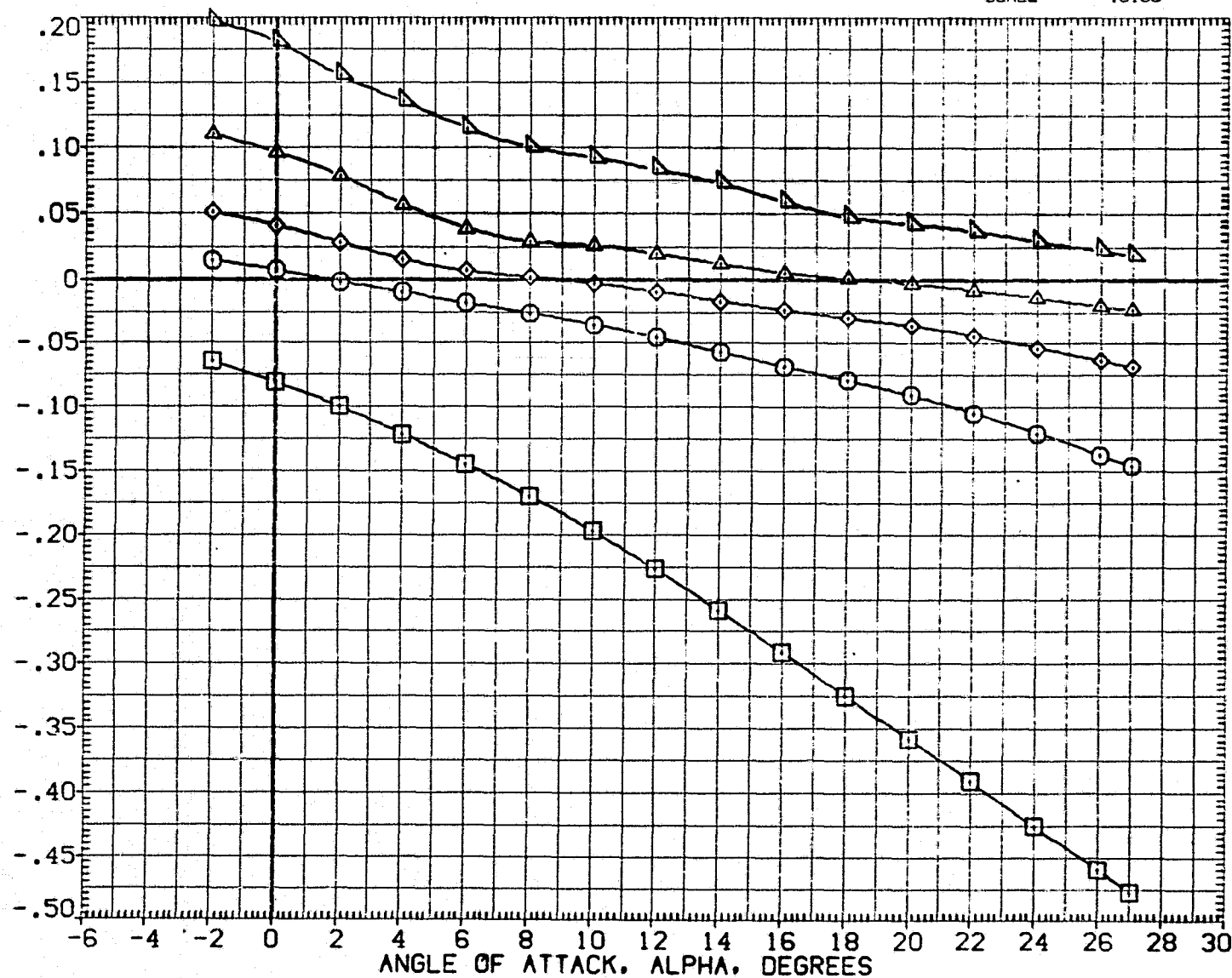


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(B)MACH = 4.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV005)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(ATV020)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
(ATV025)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
(ATV027)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
(ATV029)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

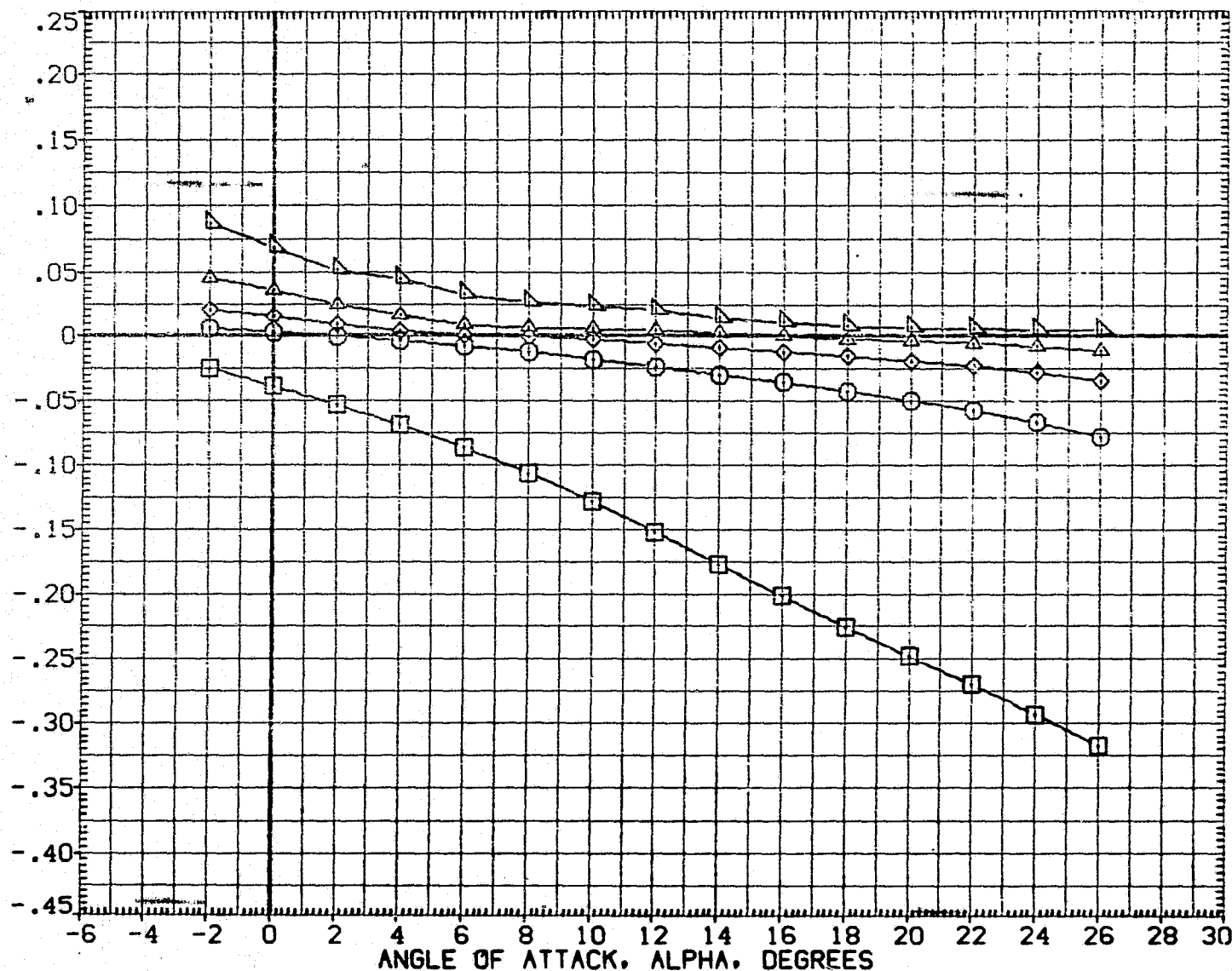


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV005)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV020)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV025)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV027)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV029)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
20.000	20.000	20.000	20.000
-10.000	-10.000	-10.000	-10.000
-20.000	-20.000	-20.000	-20.000
-40.000	-40.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

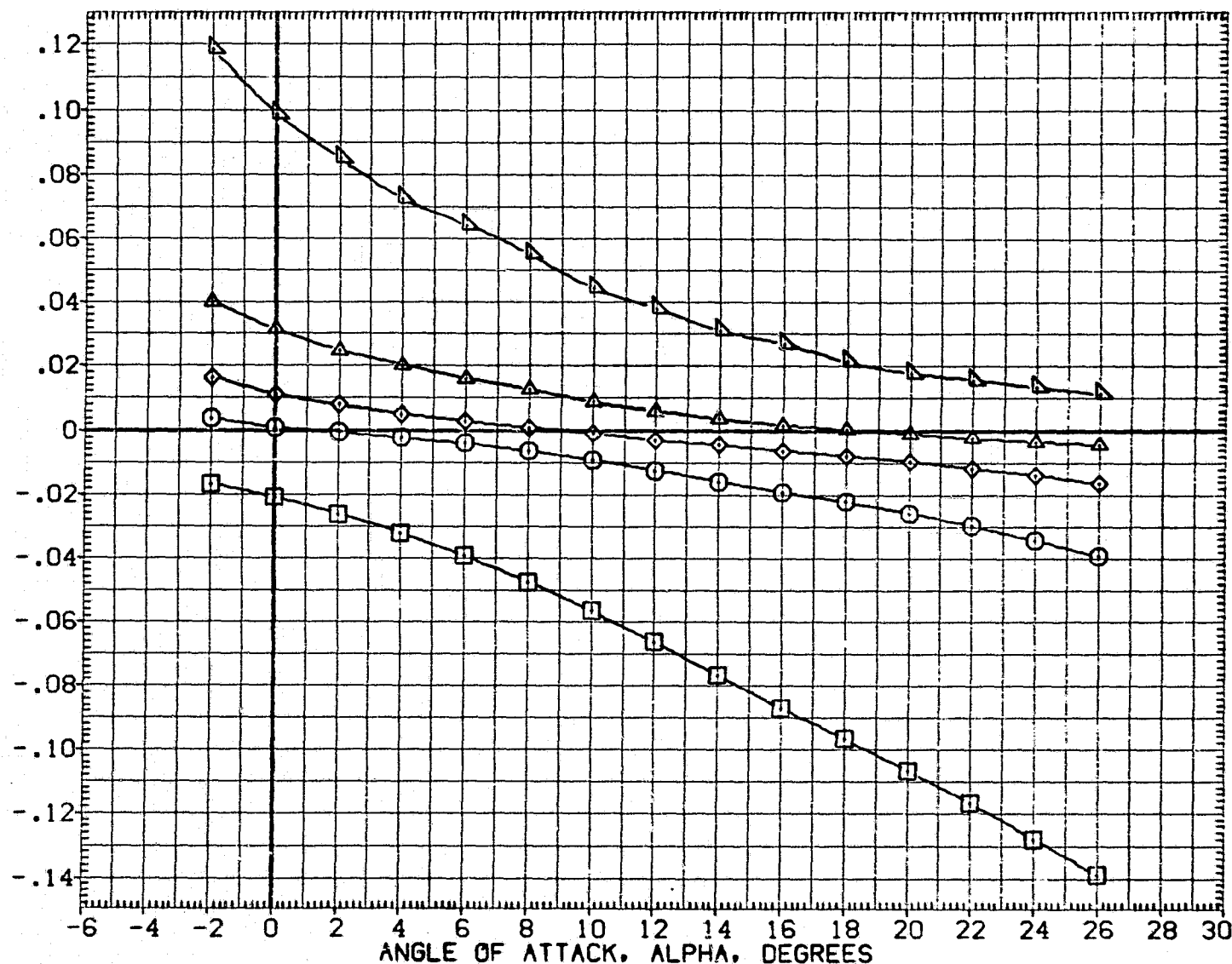


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)

(C)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
[ATV005]	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	SREF	2690.0000	50.FT.
[ATV020]	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000	LREF	474.8100	IN.
[ATV025]	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000	BREF	936.6800	IN.
[ATV027]	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000	XMRP	1076.6800	IN.X0
[ATV029]	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

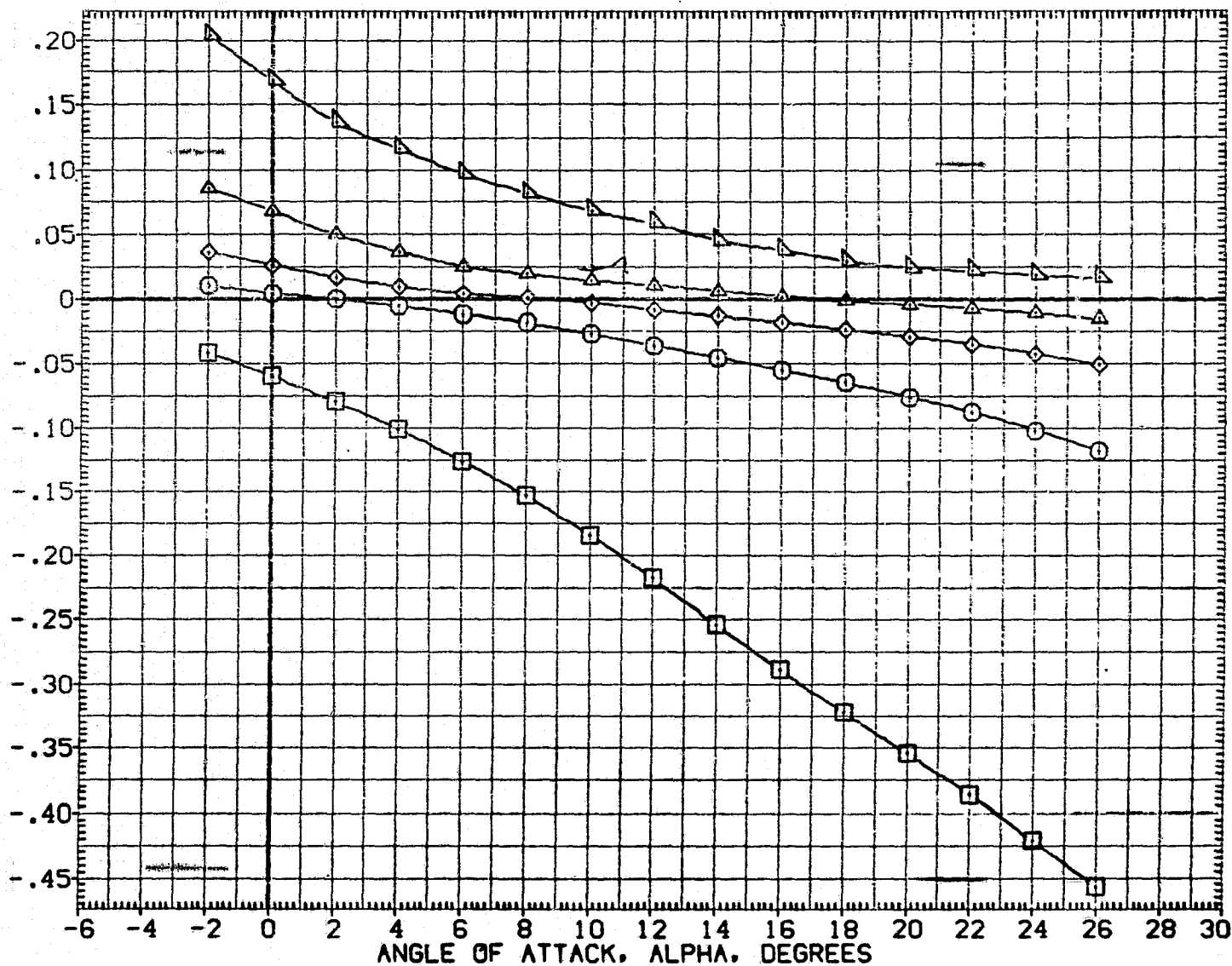


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE = 55/85)
(C)MACH = 5.00

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH
BDFLAP

PARAMETRIC VALUES

2.000 BETA
.000 RUDDER

.000 DATASET
.000 CTV029
CTV025
CTV020

DATA SOURCE

DLTEL0
-40.000
-10.000
20.000

DATASET
CTV027
CTV005

DLTEL0
-20.000
.000

SREF 2690.0000
LREF 474.8100
BREF 936.6800
XMRP 1076.6800
YMRP .0000
ZMRP 375.0000
SCALE .0150

REFERENCE INFORMATION

SQ.FT.
IN.
IN.X0
IN.Y0
IN.Z0

INCREMENTAL LIFT FORCE COEFFICIENT, DLTCL

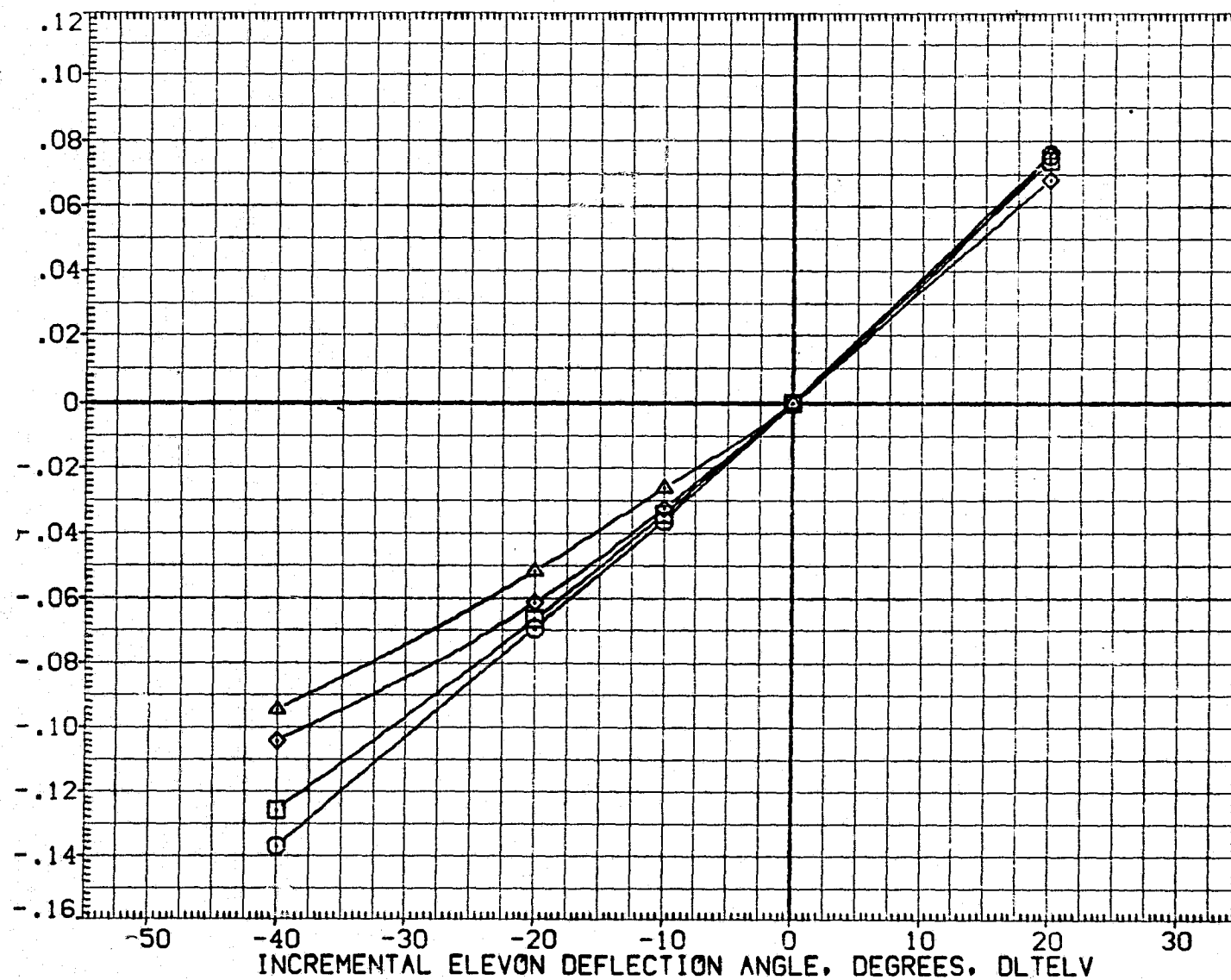


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	50.FT.
○	15.000		2.000	BETA	.000	CTV029	-40.000	CTV027	-20.000	LREF	474.8100	IN.
□	20.000	BDFLAP	.000	RUDDER	.000	CTV025	-10.000	CTV005	.000	BREF	936.6800	IN.
◇	25.000					CTV020	20.000			XMRP	1076.6800	IN.X0
△	27.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL LIFT FORCE COEFFICIENT. DLTC

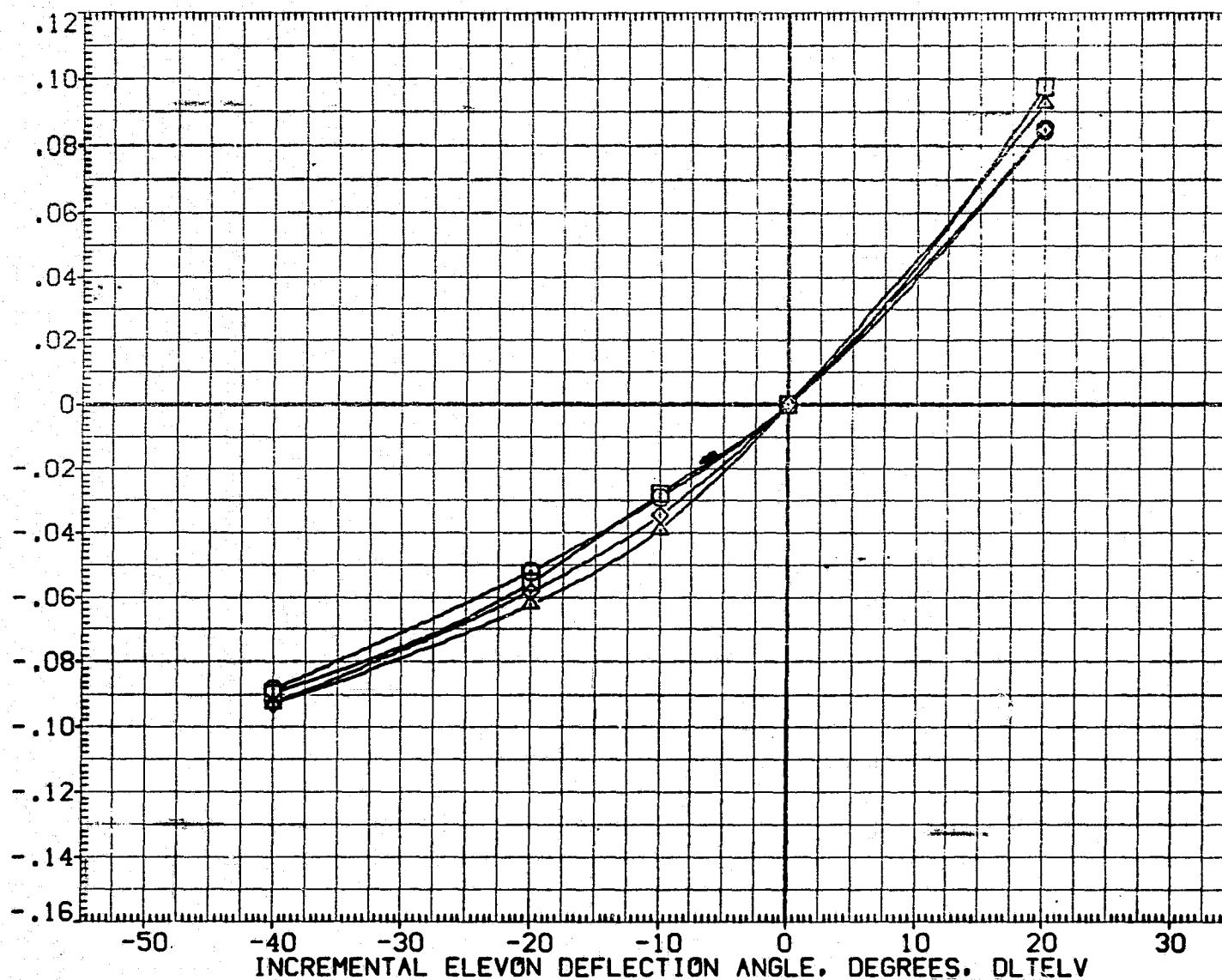


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	SO.FT.
○	-3.000		2.000		.000	CTV029	-40.000	CTV027	-20.000	LREF	474.8100	IN.
□	.000	BOFLAP	.000	RUDDER	.000	CTV025	-10.000	CTV005	.000	BREF	936.6800	IN.
◇	5.000					CTV020	20.000			XMRP	1076.6800	IN.X0
△	10.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

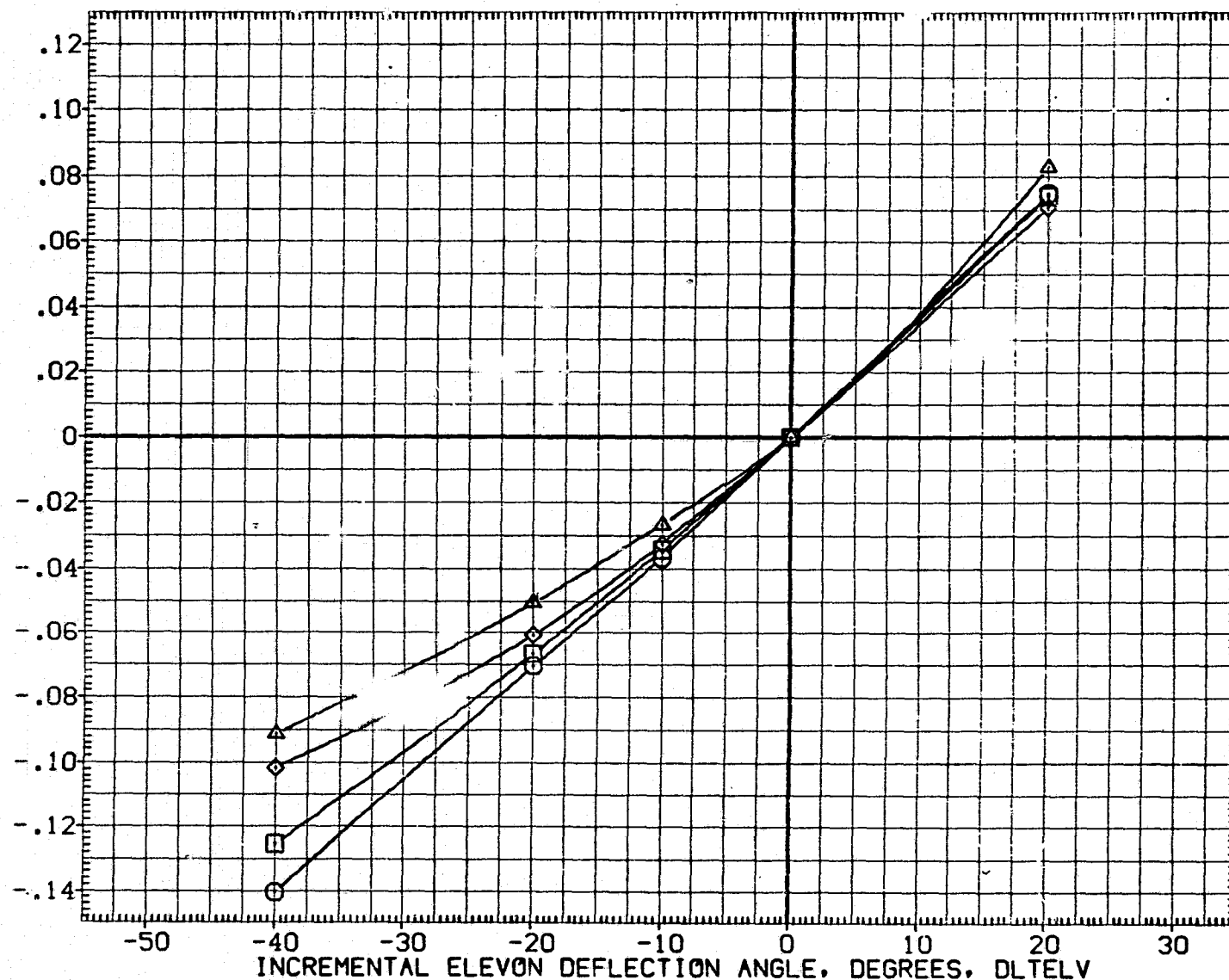


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL

○
□
◇
△

ALPHA
15.000
20.000
25.000
27.000

MACH
BDFLAP

PARAMETRIC VALUES

2.000 BETA
.000 RUDDER

.000 DATASET
.000 CTV029
CTV025
CTV020

DATA SOURCE

DLTEL0
-40.000
-10.000
20.000

DATASET
CTV027
CTV005

DLTEL0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

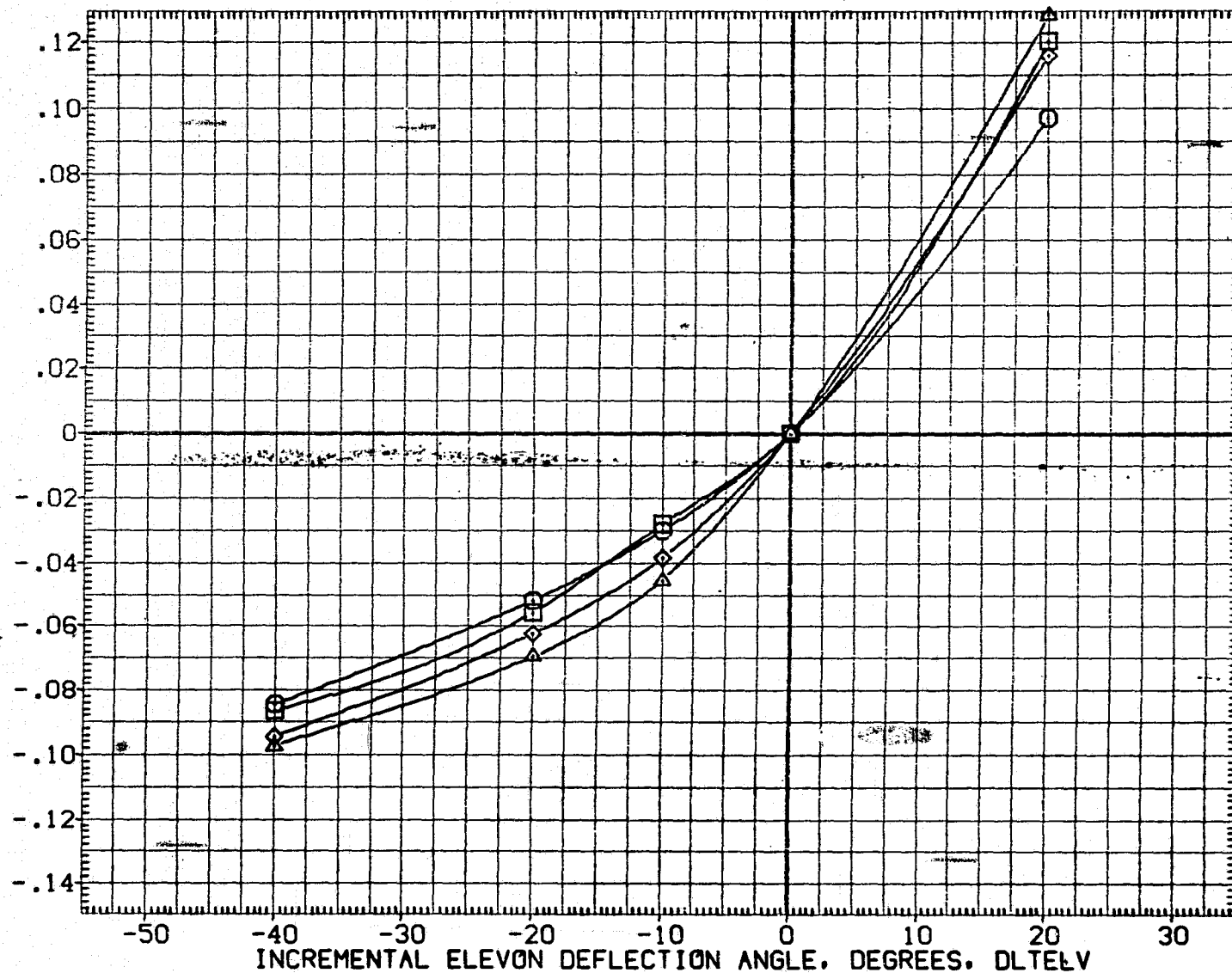


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	-3.000		2.000 BETA	.000 DATASET	SREF 2690.0000 SQ.FT.
□	.000	BDFLAP	.000 RUDDER	.000 CTV029	LREF 474.8100 IN.
◇	5.000			CTV025	BREF 936.6800 IN.
△	10.000			CTV020	XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL DRAG FORCE COEFFICIENT, DLTCO

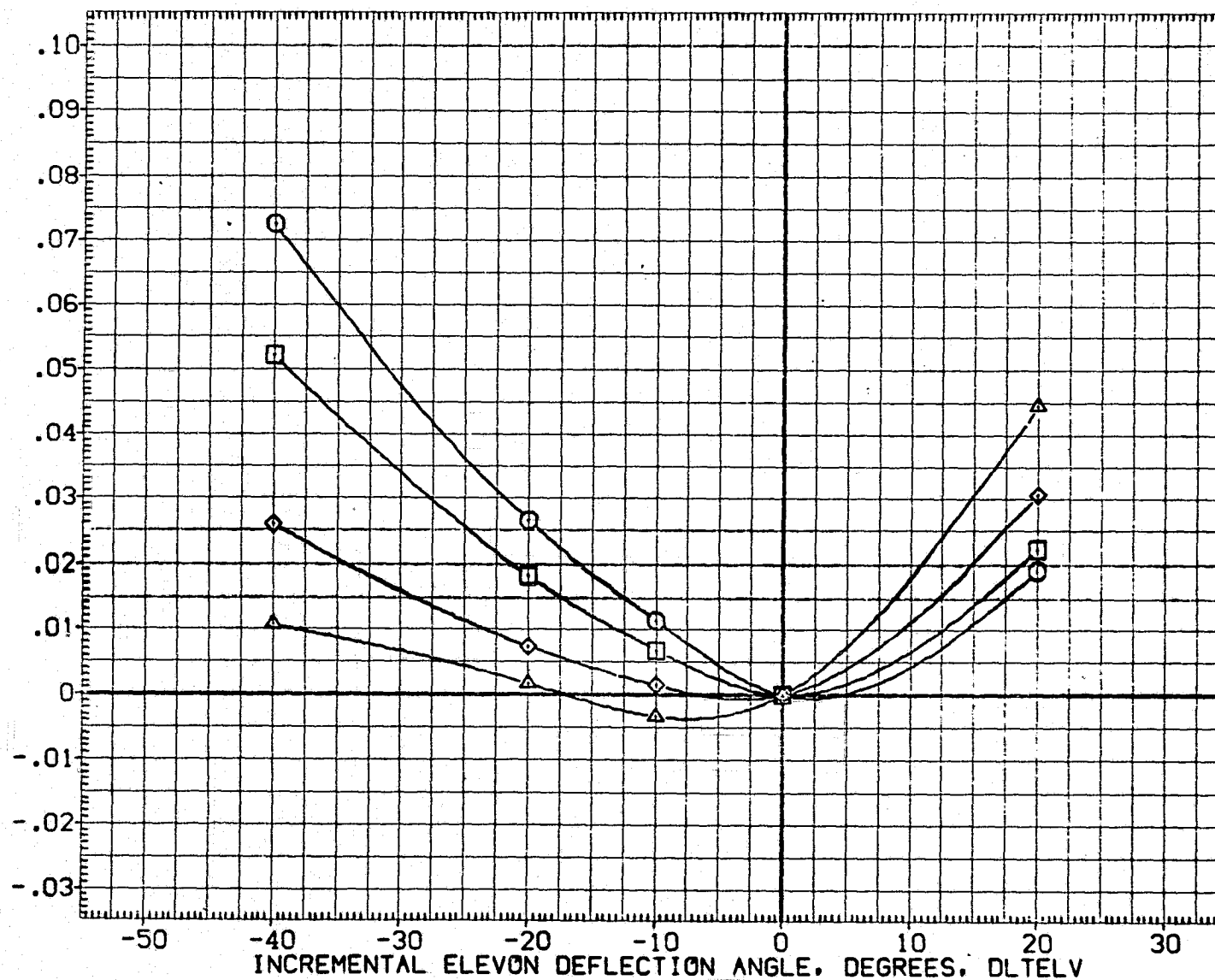


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL

○
□
◇
△

ALPHA

15.000

MACH
BDFLAP

PARAMETRIC VALUES

2.000

BETA

.000 DATASET

.000 CTV029

CTV025

CTV020

DATA SOURCE

DLTEL0

-40.000

-10.000

20.000

DATASET

CTV027

CTV005

DLTEL0

-20.000

.000

REFERENCE INFORMATION

SREF

2690.0000

LREF

474.8100

BREF

936.6800

XMRP

1076.6800

YMRP

.0000

ZMRP

.375.0000

SCALE

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL DRAG FORCE COEFFICIENT, DLTCO

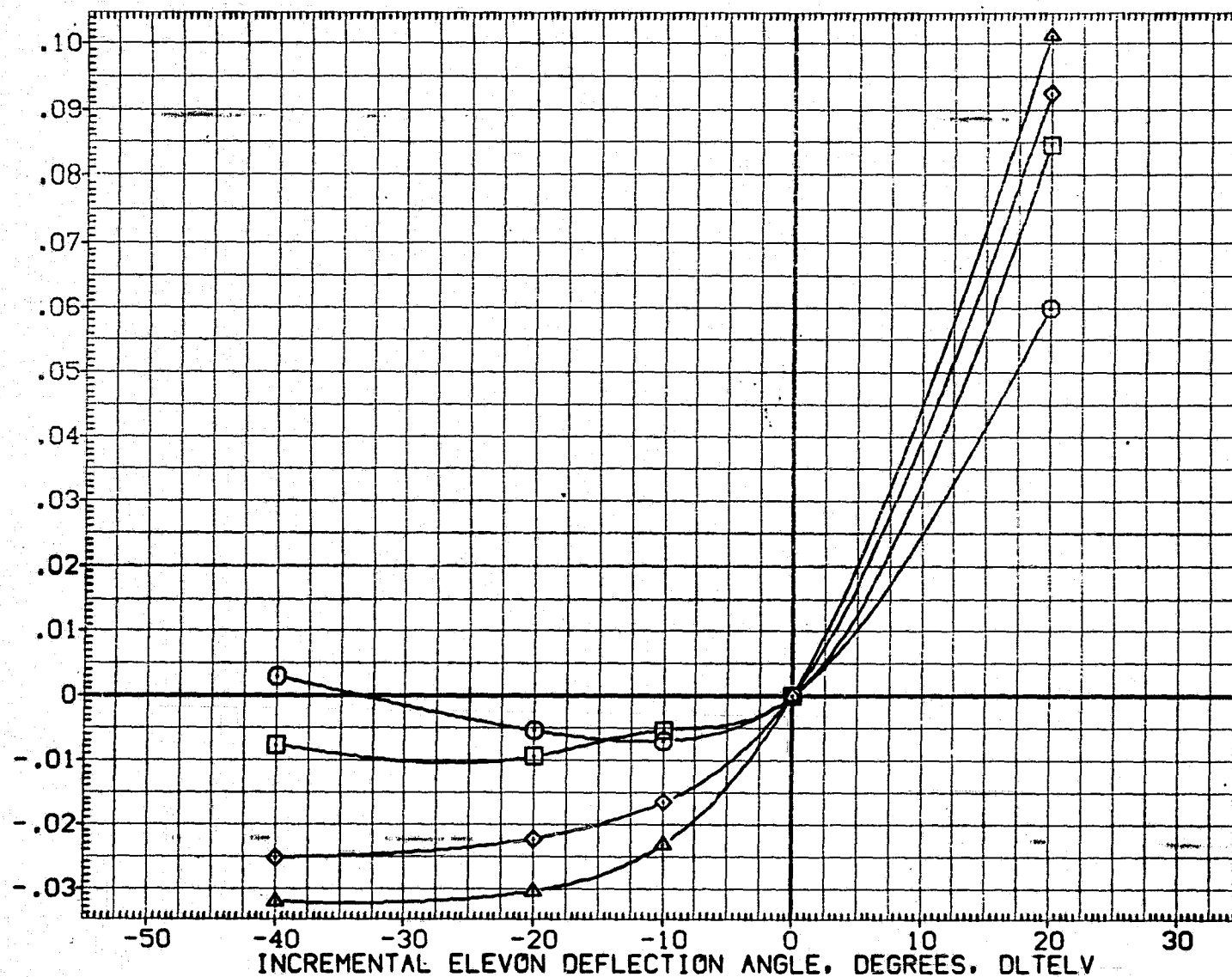


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH
BDFLAP

PARAMETRIC VALUES

4.000 BETA
.000 RUDDER

.000 DATASET
.000 CTV029
CTV025
CTV020

DATA SOURCE

DLTELO
-40.000
-10.000
20.000

DATASET
CTV027
CTV005

DLTELO
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL LIFT FORCE COEFFICIENT, DLICL

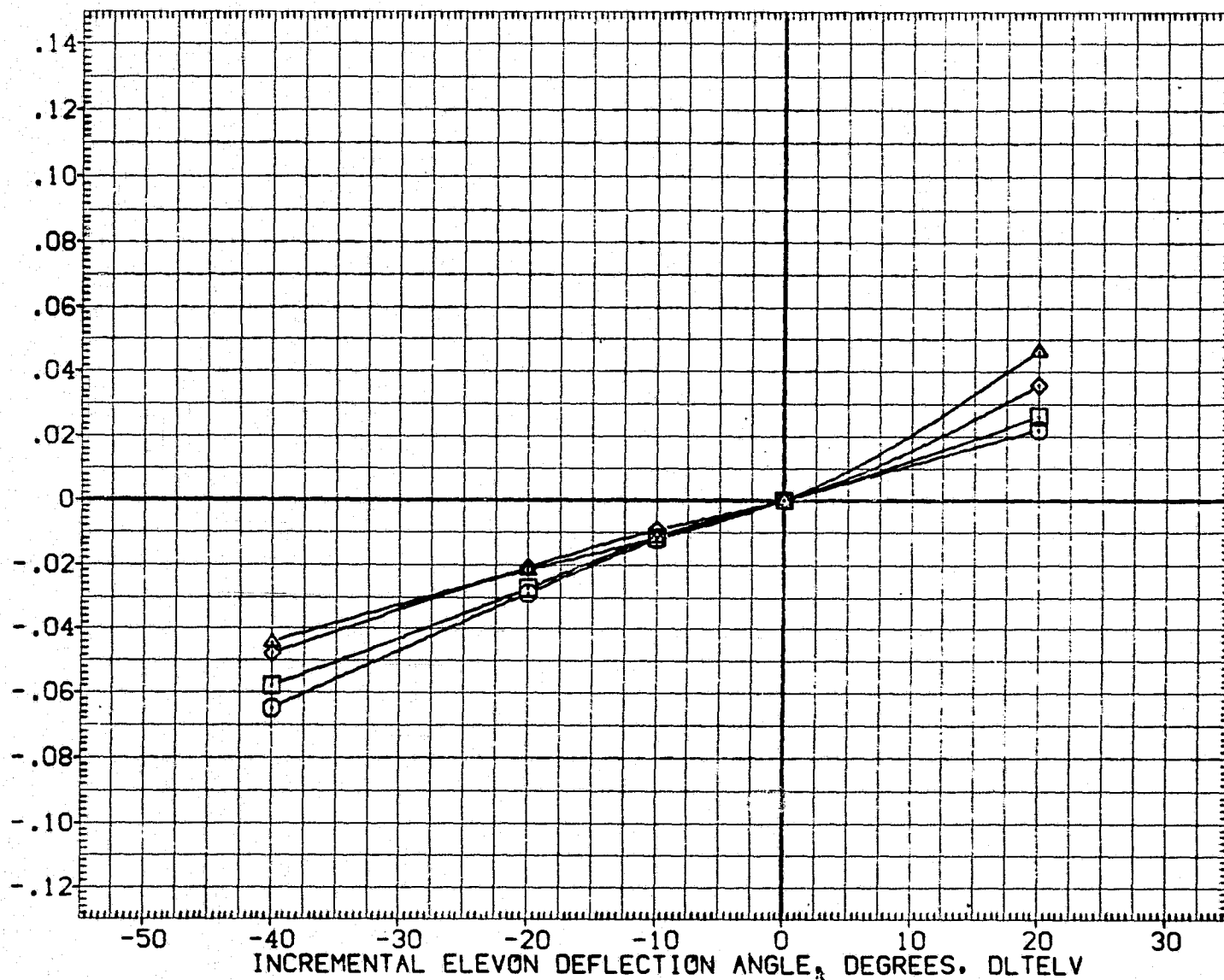


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION			
○	15.000		4.000	BETA	.000	CTV029	-40.000	CTV027	-20.000	SREF 2690.0000
□	20.000	BDFLAP	.000	RUDDER	.000	CTV025	-10.000	CTV005	.000	LREF 474.8100
◇	25.000					CTV020	20.000			BREF 936.6800
△	27.000									XMRP 1076.6900
										YMRP .0000
										ZMRP 375.0000
										SCALE .0150

INCREMENTAL LIFT FORCE COEFFICIENT, DLICL

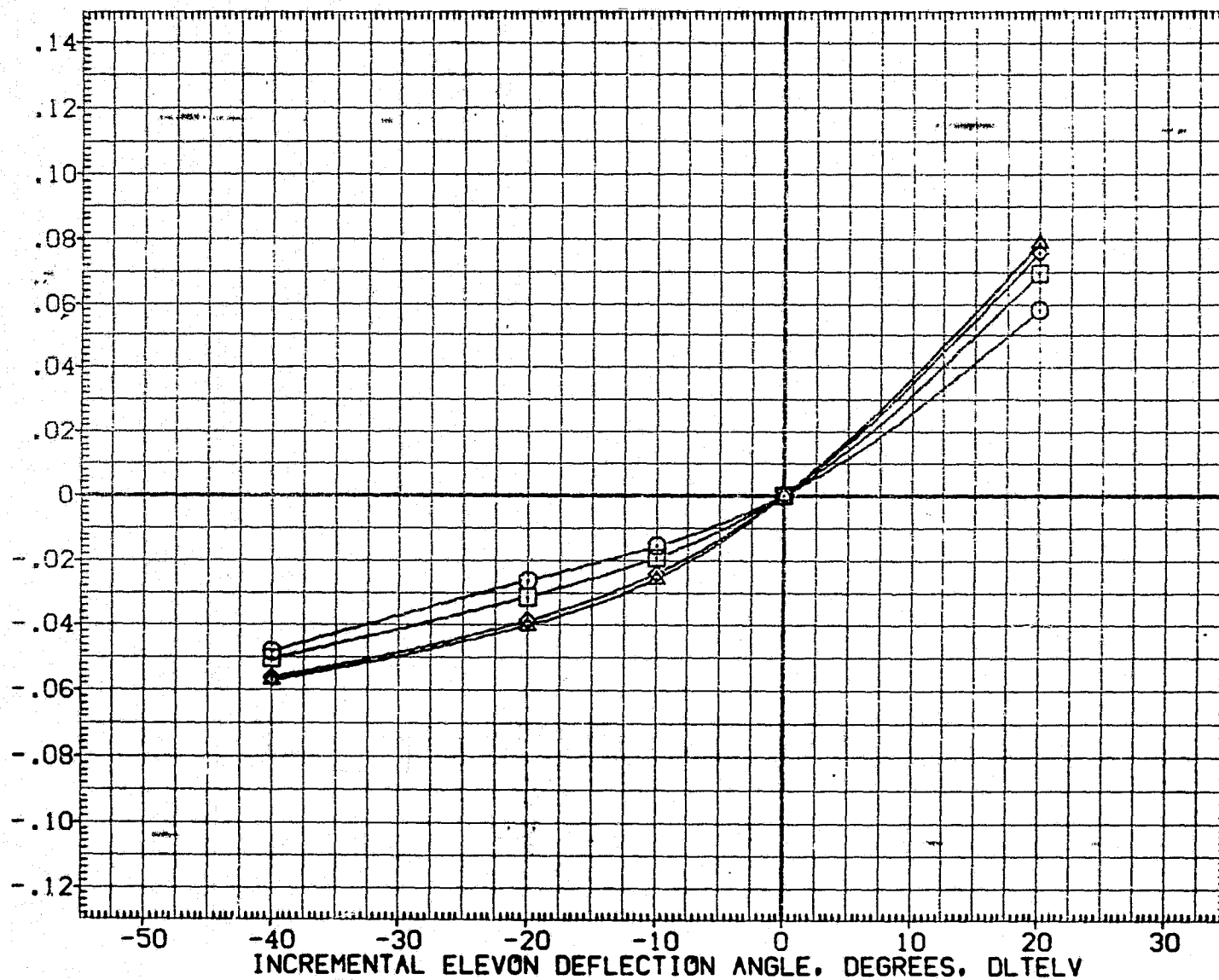


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	DLTELO	DATASET	DLTELO	SREF	2690.0000	50.FT.
○	-3.000		4.000	BETA	.000	CTV029	-40.000	CTV027	-20.000	LREF	474.8100	IN.
□	.000	BDFLAP	.000	RUDDER	.000	CTV025	-10.000	CTV005	.000	BREF	936.6800	IN.
◇	5.000					CTV020	20.000			XMRP	1076.6800	IN.X0
△	10.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

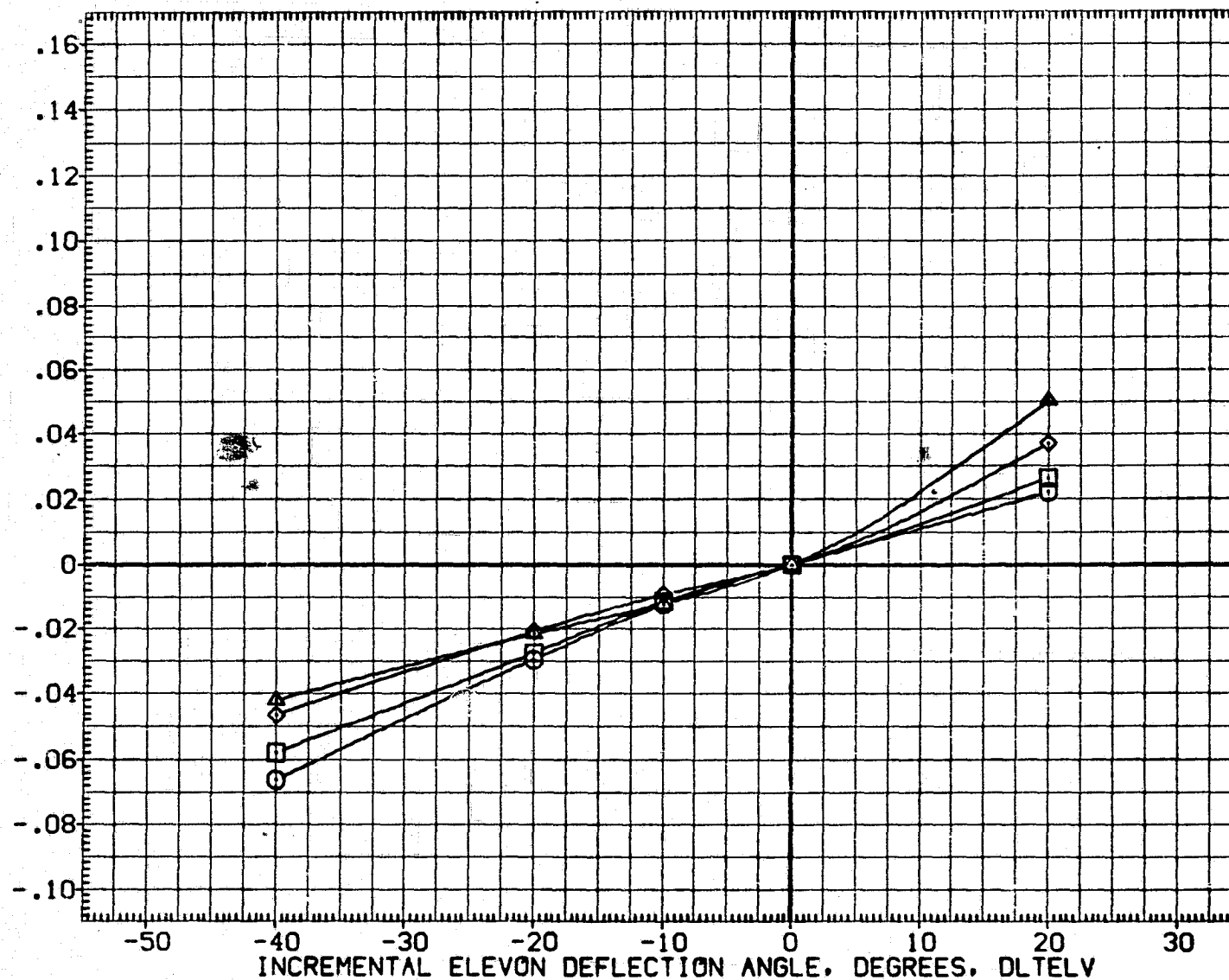


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION				
○	15.000		4.000	BETA	.000	CTV029	-40.000	SREF	2690.0000	SQ.FT.	
□	20.000	BDFLAP	.000	RUDDER	.000	CTV025	-10.000	LREF	474.8100	IN.	
◇	25.000					CTV020	20.000	BREF	936.6800	IN.	
△	27.000							XMRP	1076.6800	IN.X0	
								YMRP	.0000	IN.Y0	
								ZMRP	375.0000	IN.Z0	
								SCALE	.0150		

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

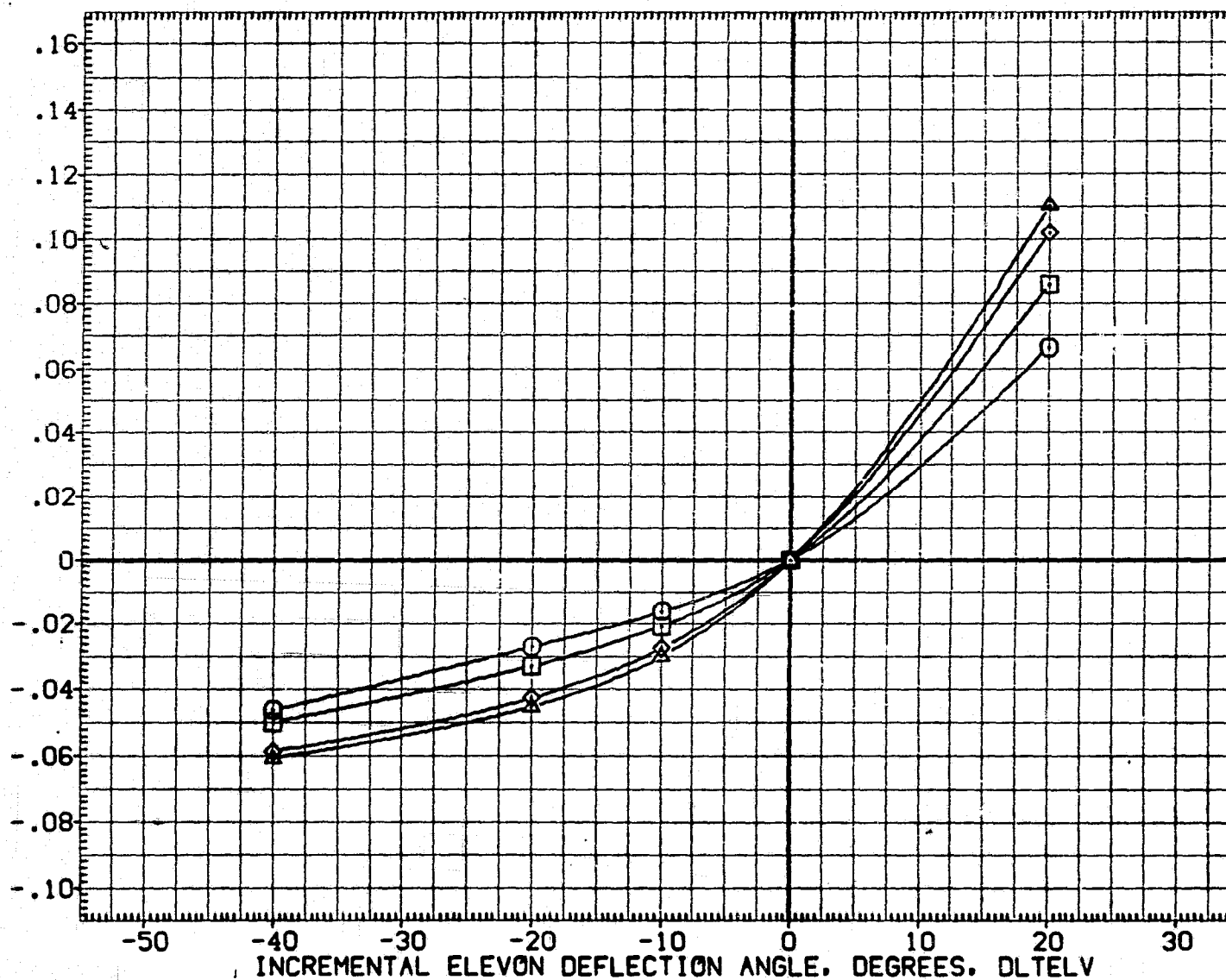


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL

○

□

◇

△

ALPHA

-3.000

MACH

BDFLAP

PARAMETRIC VALUES

4.000

BETA

.000

RUDDER

.000

DATASET

CTV029

CTV025

CTV020

DATA SOURCE

DLTEL0

-40.000

-10.000

20.000

DATASET

CTV027

CTV005

DLTEL0

-20.000

.000

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

REFERENCE INFORMATION

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL DRAG FORCE COEFFICIENT, DLICD

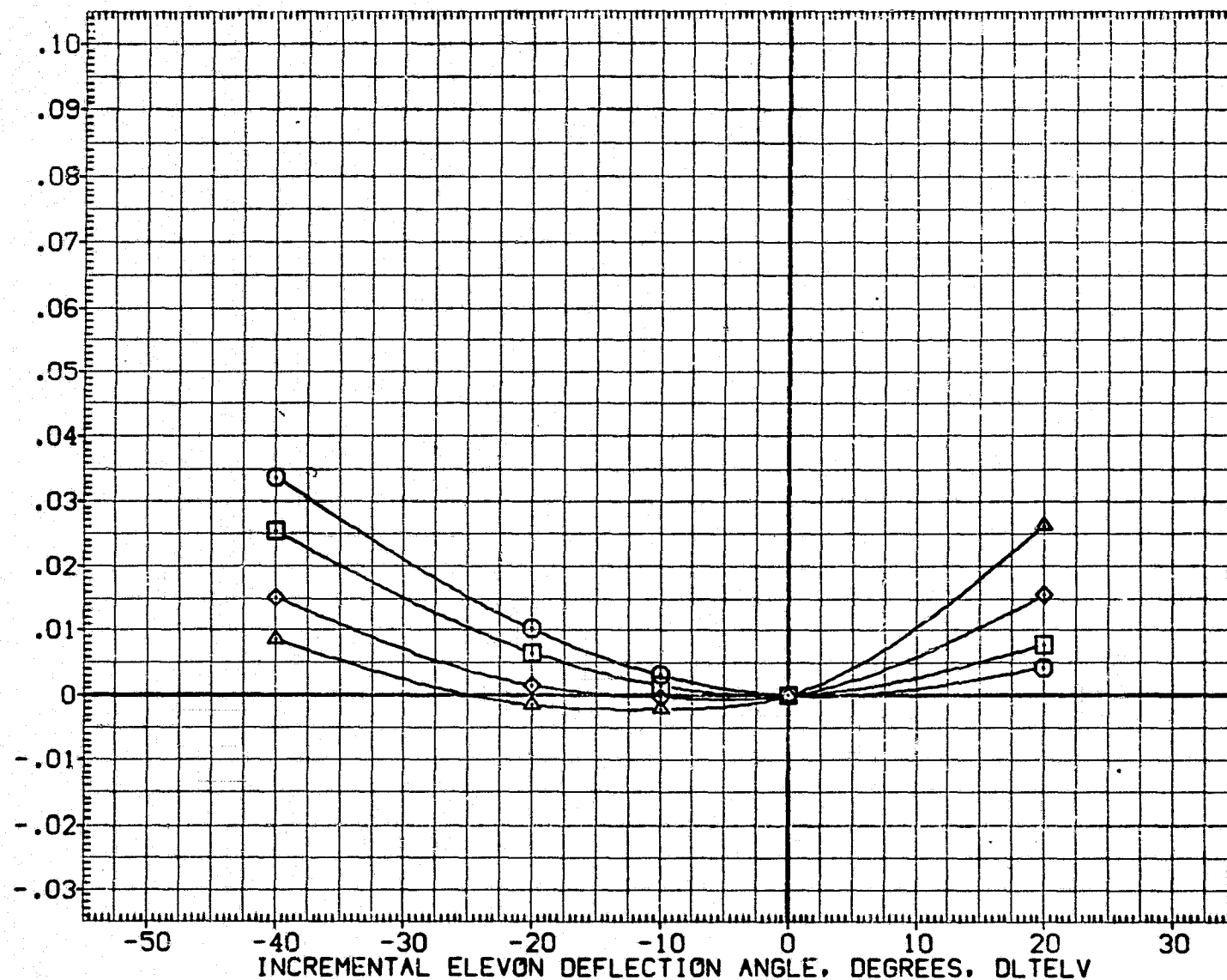


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	15.000	MACH	4.000	BETA	.000	DATASET	DLTELO	DATASET	DLTELO	SREF	2690.0000	SQ.FT.
□	20.000	BDFLAP	.000	RUDDER	.000	CTV029	-40.000	CTV027	-20.000	LREF	474.8100	IN.
◇	25.000					CTV025	-10.000	CTV005	.000	BREF	936.6800	IN.
△	27.000					CTV020	20.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL DRAG FORCE COEFFICIENT, DLICD

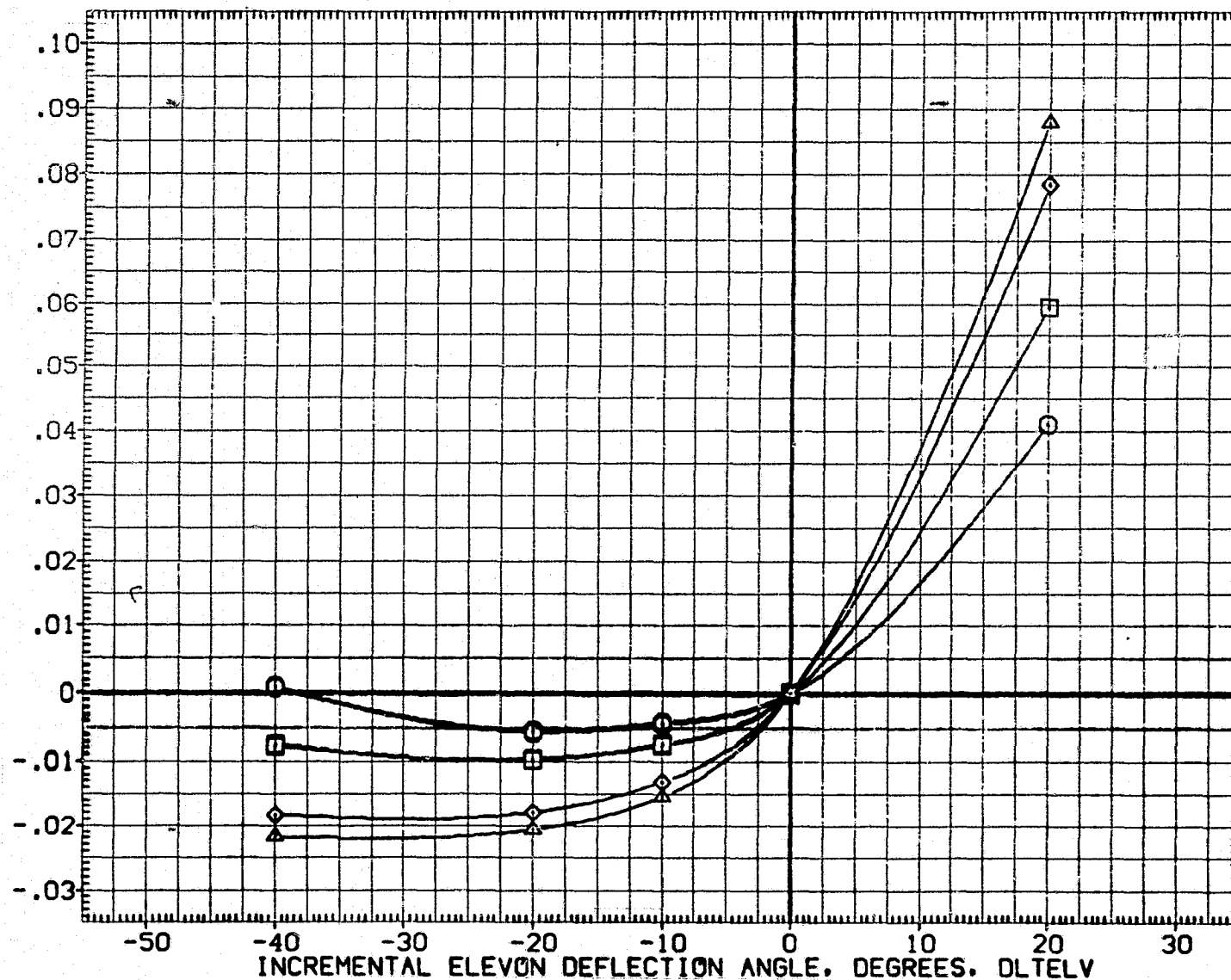


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH

BDFLAP

PARAMETRIC VALUES

5.000
.000

BETA

RUDDER

.000 DATASET
.000 CTV029
CTV025
CTV020

DATA SOURCE

DLTEL0
-40.000
-10.000
20.000DATASET
CTV027
CTV005DLTEL0
-20.000
.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

INCREMENTAL LIFT FORCE COEFFICIENT, DLTC

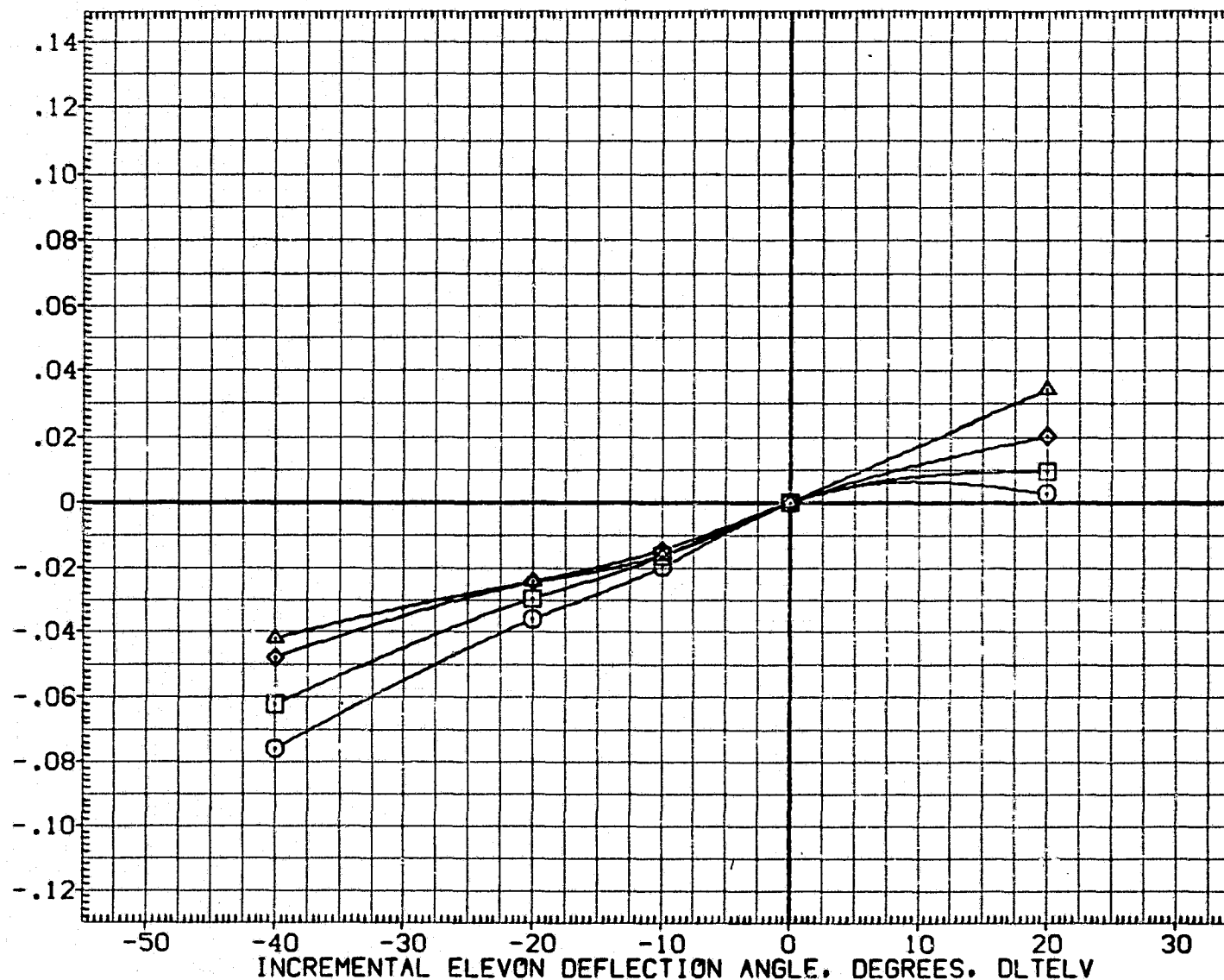


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	DLTELO	DATASET	DLTELO	SREF	2690.0000	50.FT.
○	15.000									LREF	474.8100	IN.
□	20.000	BOFLAP		RUDDER	.000	CTV029	-40.000	CTV027	-20.000	BREF	936.6800	IN.
◇	25.000					CTV025	-10.000	CTV005	.000	XMRP	1076.6800	IN.X0
△	27.000					CTV020	20.000			YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL LIFT FORCE COEFFICIENT, DLTCI

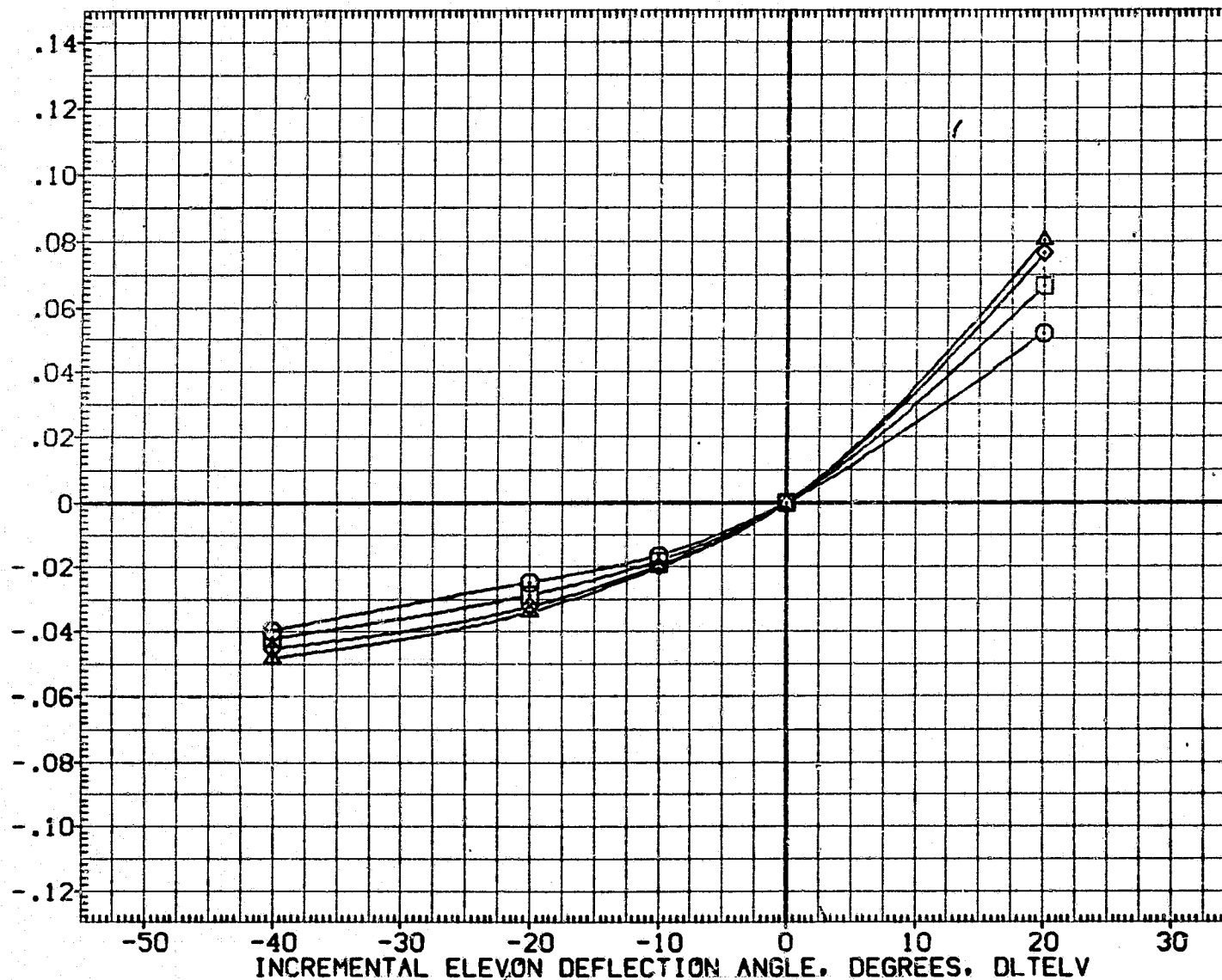


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL

○
□
◇
△

ALPHA

-3.000

MACH

BOFLAP

PARAMETRIC VALUES

5.000

BETA

RUDDER

.000

DATASET

CTV029

CTV025

CTV020

DATA SOURCE

DLTEL0

-40.000

-10.000

20.000

DATASET

CTV027

CTV005

DLTEL0

-20.000

.000

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

REFERENCE INFORMATION

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

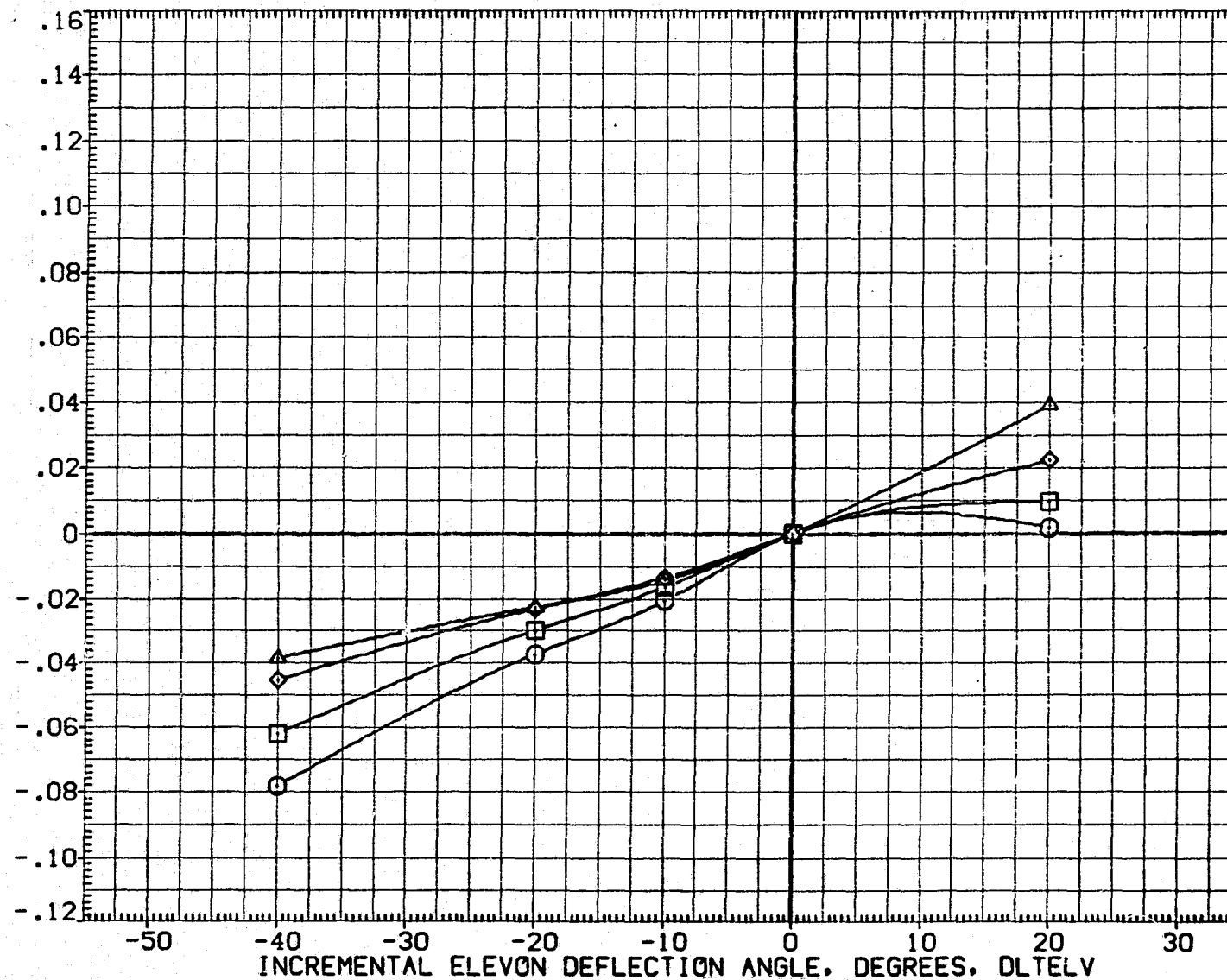


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE	DLTELO	DATA SOURCE	DLTELO	REFERENCE INFORMATION		
○	15.000		5.000	BETA	.000	CTV029	-40.000	CTV027	SREF	2690.0000	SQ.FT.
□	20.000	BOFLAP	.000	RUDDER	.000	CTV025	-10.000	CTV005	LREF	474.8100	IN.
◇	25.000					CTV020	20.000		BREF	936.6800	IN.
△	27.000								XMRP	1076.6800	IN.X0
									YMRP	.0000	IN.Y0
									ZMRP	375.0000	IN.Z0
									SCALE	.0150	

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

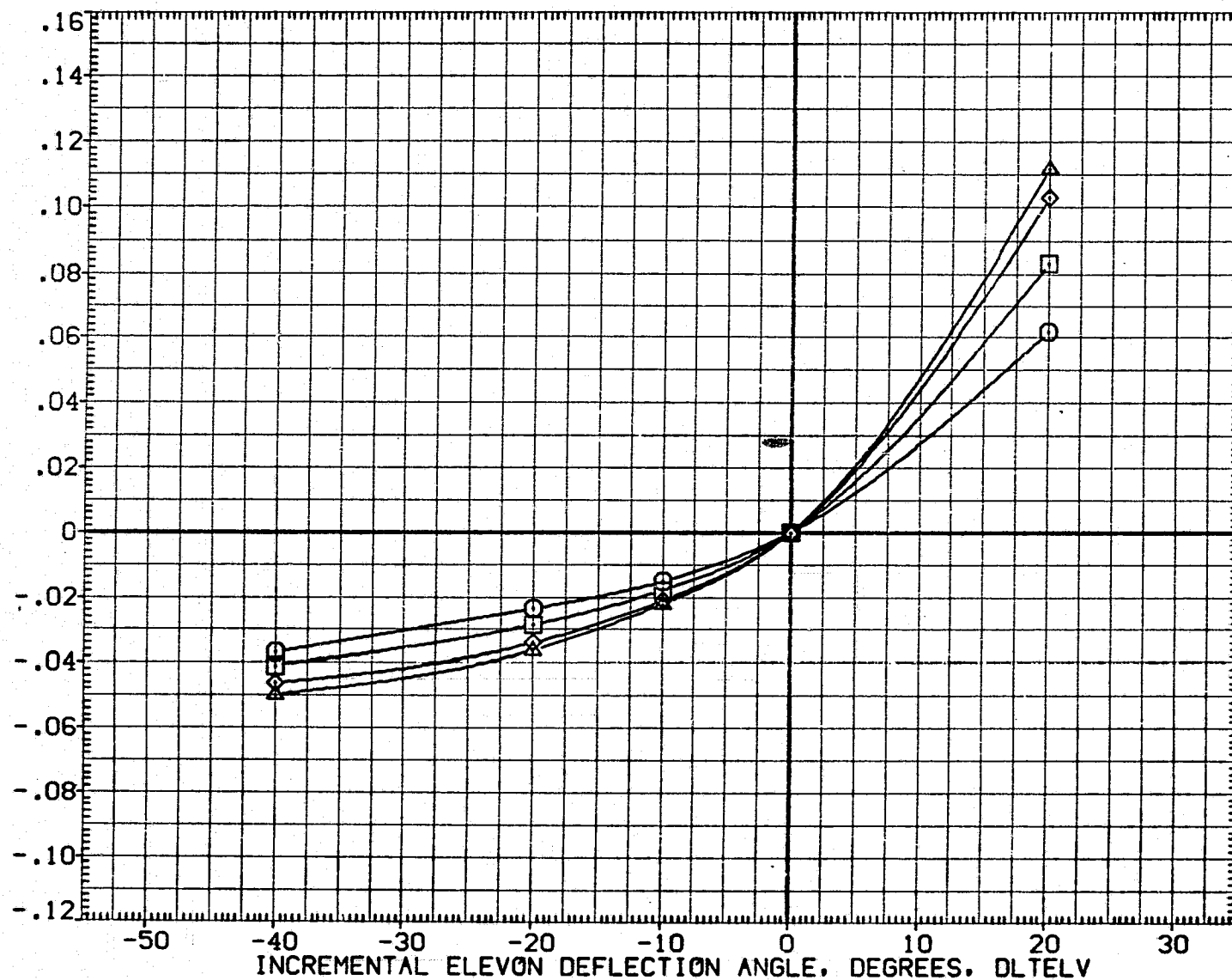


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH
BDFLAP

PARAMETRIC VALUES

5.000 BETA
.000 RUDDER

.000 DATASET
.000 CTV029
CTV025
CTV020

DATA SOURCE

DLTELO
-40.000
-10.000
20.000

DATASET
CTV027
CTV005

DLTELO
-20.000
.000

SREF
LREF
BREF
XMRP
YMRP
ZMRP
SCALE

REFERENCE INFORMATION

2690.0000 SQ.FT.
474.8100 IN.
936.6800 IN.
1076.6800 IN.X0
.0000 IN.Y0
375.0000 IN.Z0
.0150

INCREMENTAL DRAG FORCE COEFFICIENT, DLTCO

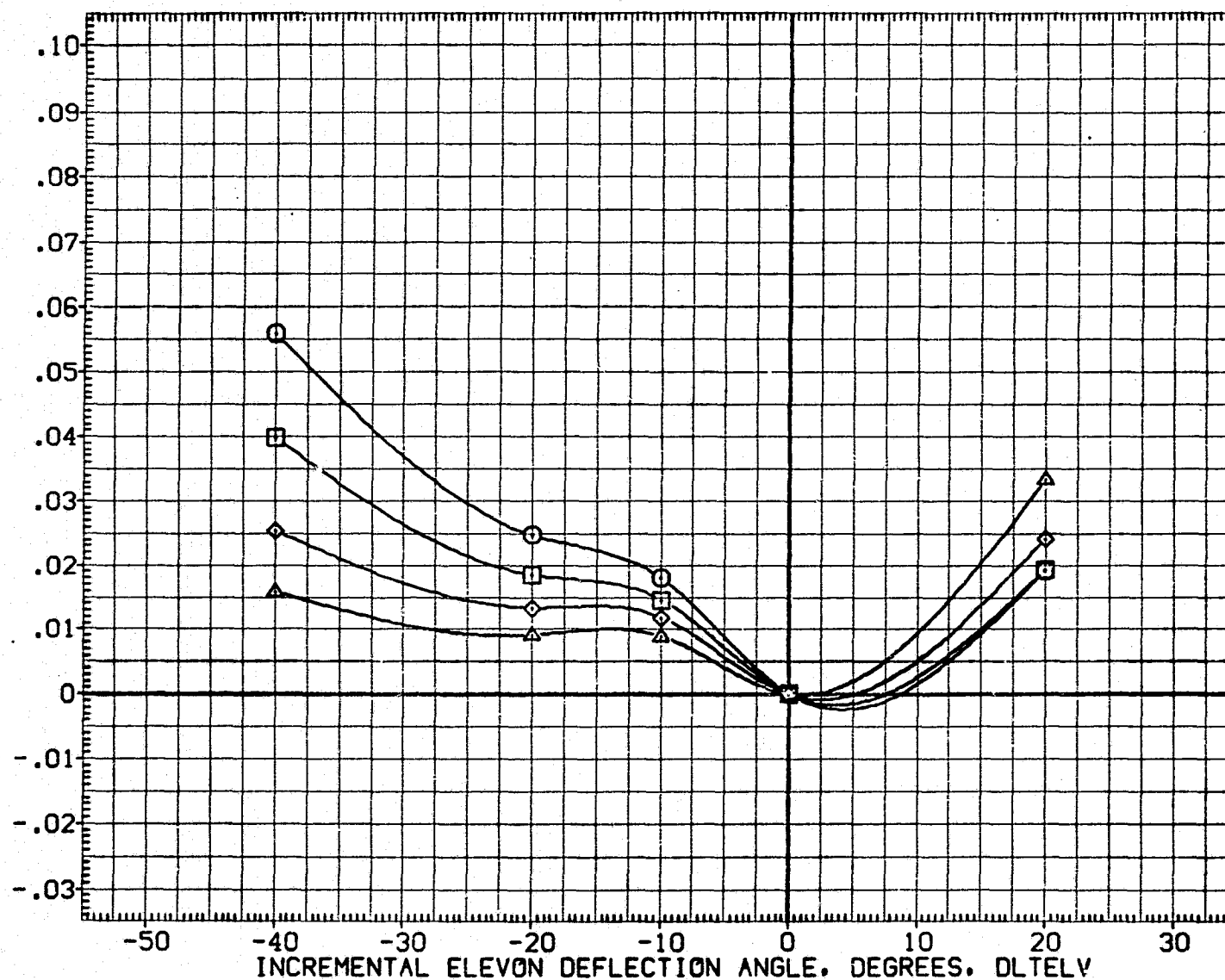


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV029)

SYMBOL
○
□
◇
△

ALPHA
15.000
20.000
25.000
27.000

MACH
BDFLAP

PARAMETRIC VALUES
5.000 BETA
.000 RUDDER

.000 DATASET
.000 CTV029
CTV025
CTV020

DATA SOURCE
DLTEL0
-40.000
-10.000
20.000

DATASET
CTV027
CTV005

DLTEL0
-20.000
.000

REFERENCE INFORMATION
SREF 2690.0000
LREF 474.8100
BREF 936.6800
XMRP 1076.6800
YMRP .0000
ZMRP 375.0000
SCALE .0150

50.FT.
IN.
IN.
IN.X0
IN.Y0
IN.Z0

INCREMENTAL DRAG FORCE COEFFICIENT, DLTCO

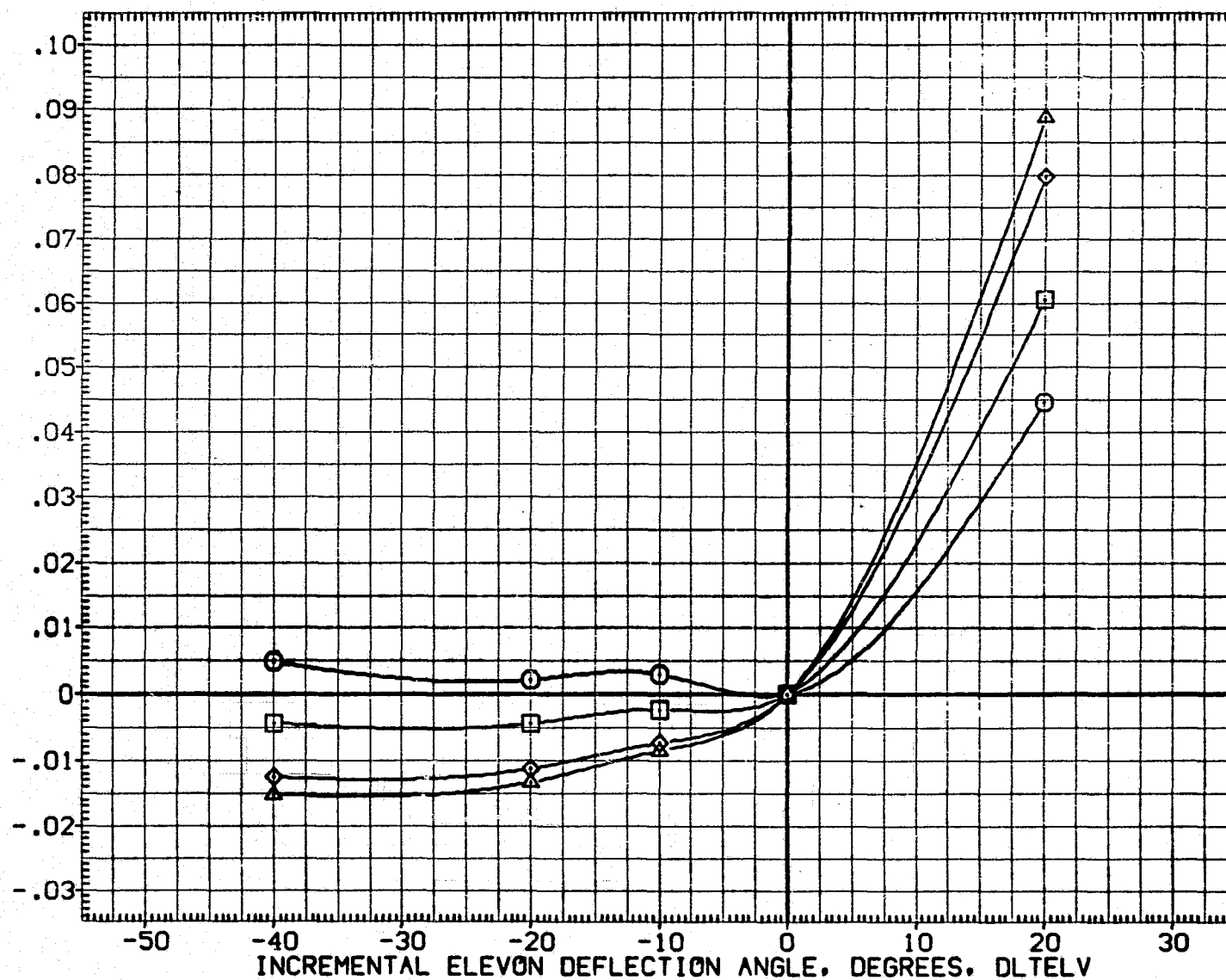


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL

○
□
◇
△

ALPHA

-3.000

MACH

BOFLAP

PARAMETRIC VALUES

2.000

BETA

RUDDER

.000

DATASET

DTV029

DTV025

DTV020

DATA SOURCE

DLTEL0

-40.000

-10.000

20.000

DATASET

DTV027

DTV005

DLTEL0

-20.000

.000

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8100

BREF 936.6800

XMRP 1076.6800

YMRP .0000

ZMRP 375.0000

SCALE .0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.) DLTCMF

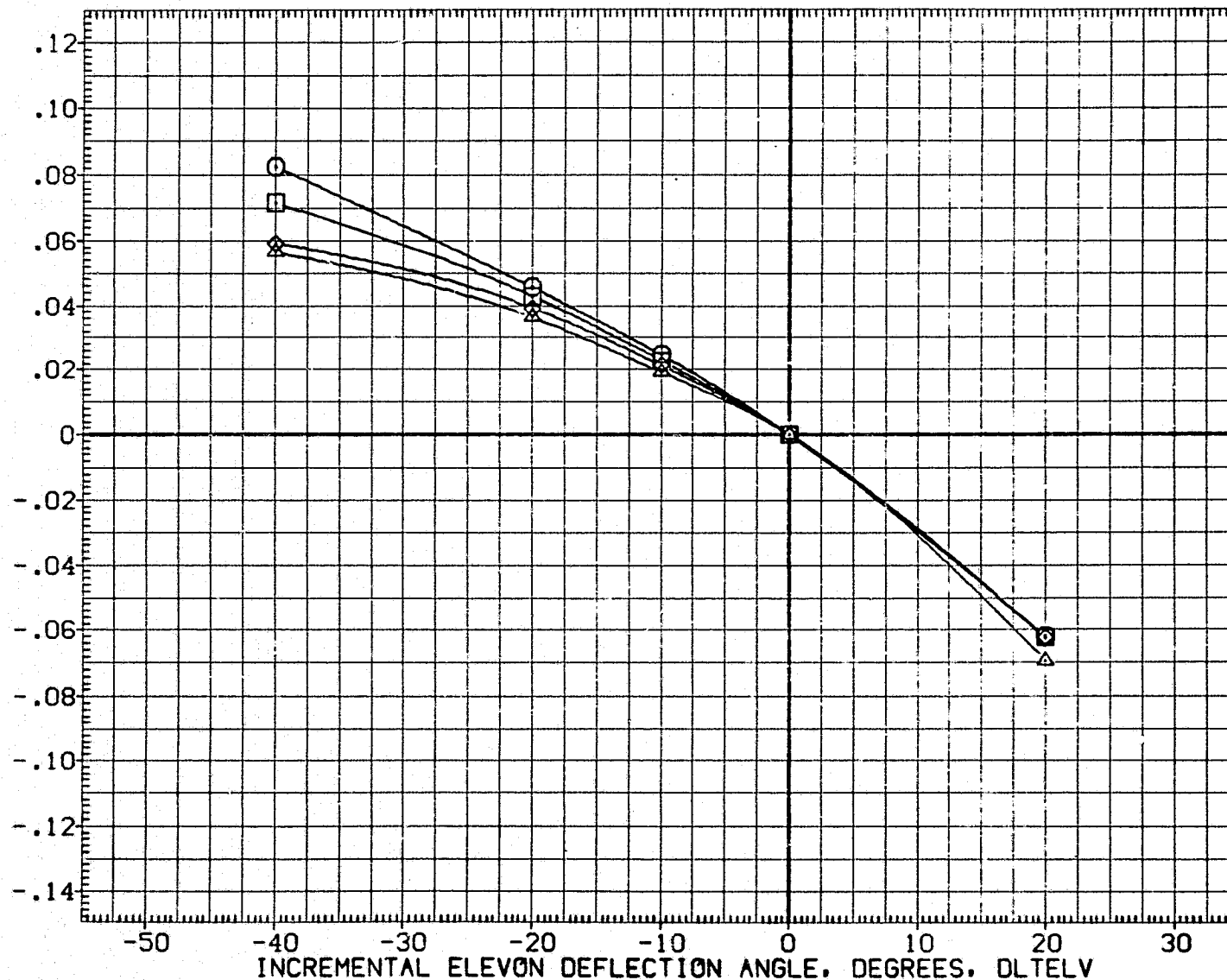


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL



ALPHA

MACH

BDFLAP

PARAMETRIC VALUES

2.000

BETA

.000

RUDDER

.000 DATASET

.000 DTV029

DTV025

DTV020

DATA SOURCE

DLTELO

-40.000

-10.000

20.000

DATASET

DTV027

DTV005

DLTELO

-20.000

.000

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8100

BREF 936.6800

XMRP 1076.6800

YMRP .0000

ZMRP 375.0000

SCALE .0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.) DLTCMF

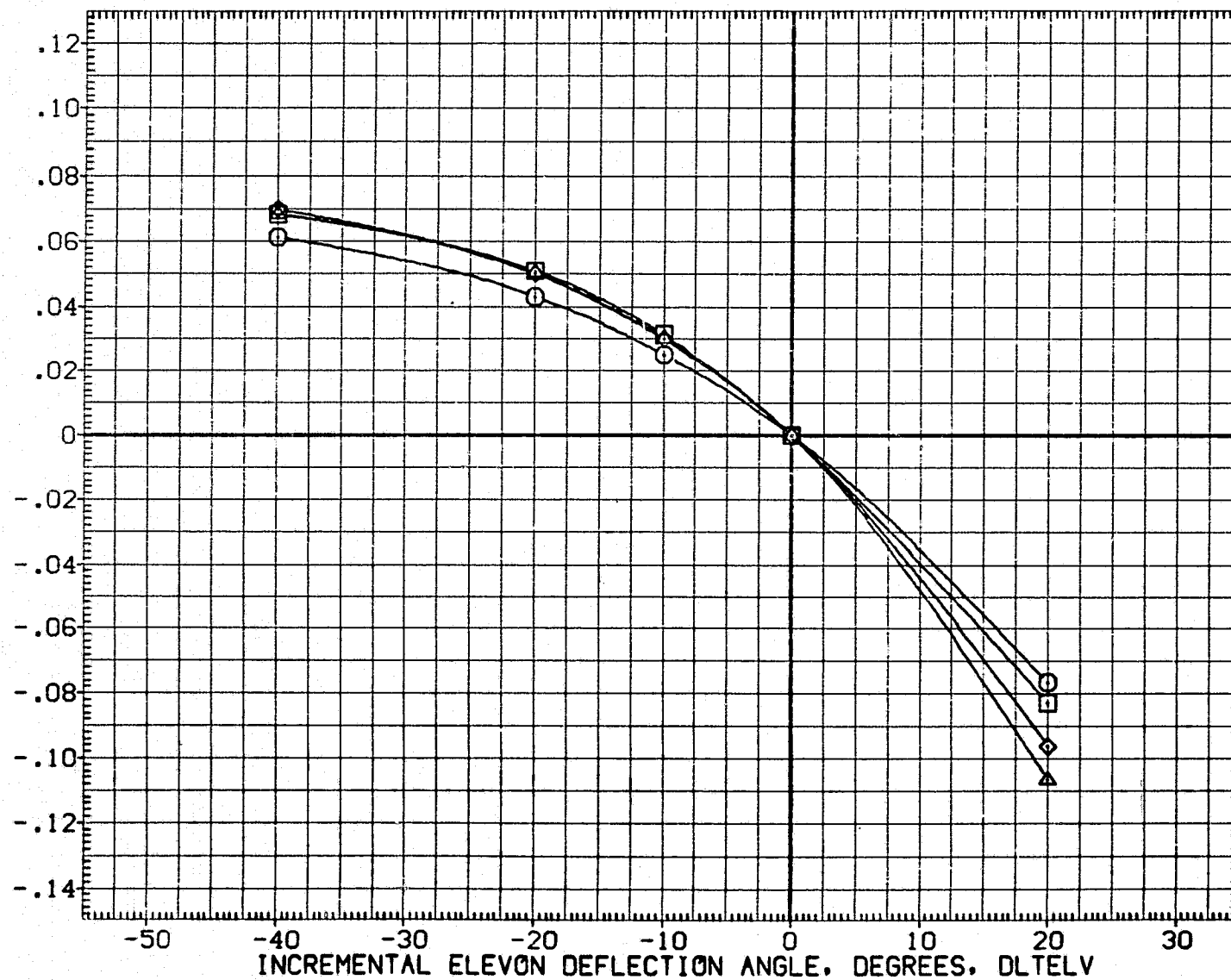


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL

○
□
◇
△

ALPHA

-3.000

MACH

BDFLAP

PARAMETRIC VALUES

2.000

BETA

.000

RUDDER

.000

DATASET

DTV029

DTV025

DTV020

DATA SOURCE

DLTEL0

-40.000

-10.000

20.000

DATASET

DTV027

DTV005

DLTEL0

-20.000

.000

REFERENCE INFORMATION

SREF

2690.0000

LREF

474.8100

BREF

936.6800

XMRP

1076.6800

YMRP

.0000

ZMRP

375.0000

SCALE

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.) DLTCMA

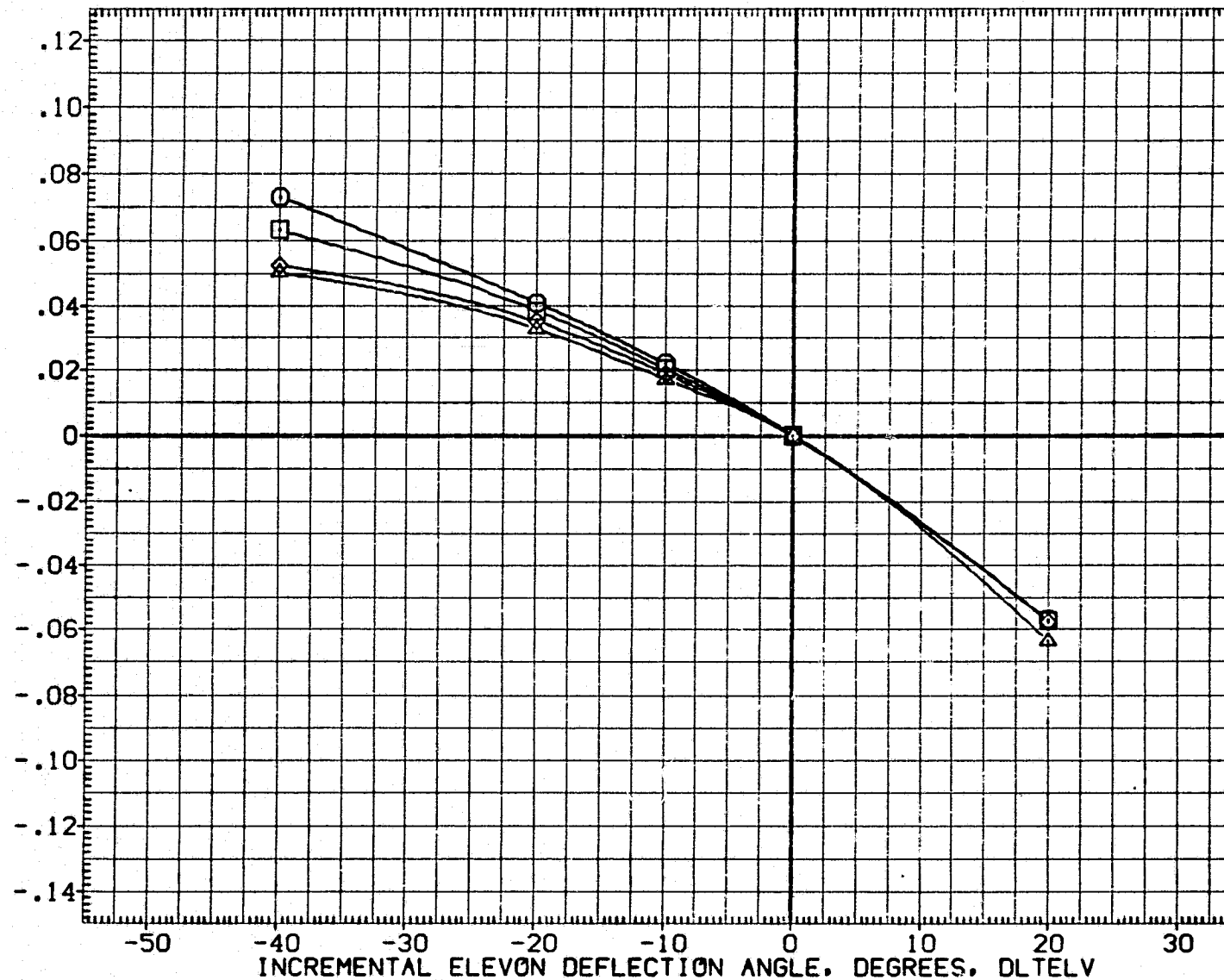


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL

○
□
◇
△

ALPHA

15.000
20.000
25.000
27.000

MACH
BOFLAP

PARAMETRIC VALUES

2.000 BETA
.000 RUDDER

.000 DATASET
.000 DTV029
DTV025
DTV020

DATA SOURCE

DLTELO
-40.000
-10.000
20.000

DATASET
DTV027
DTV025

DLTELO
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.) DLTCMA

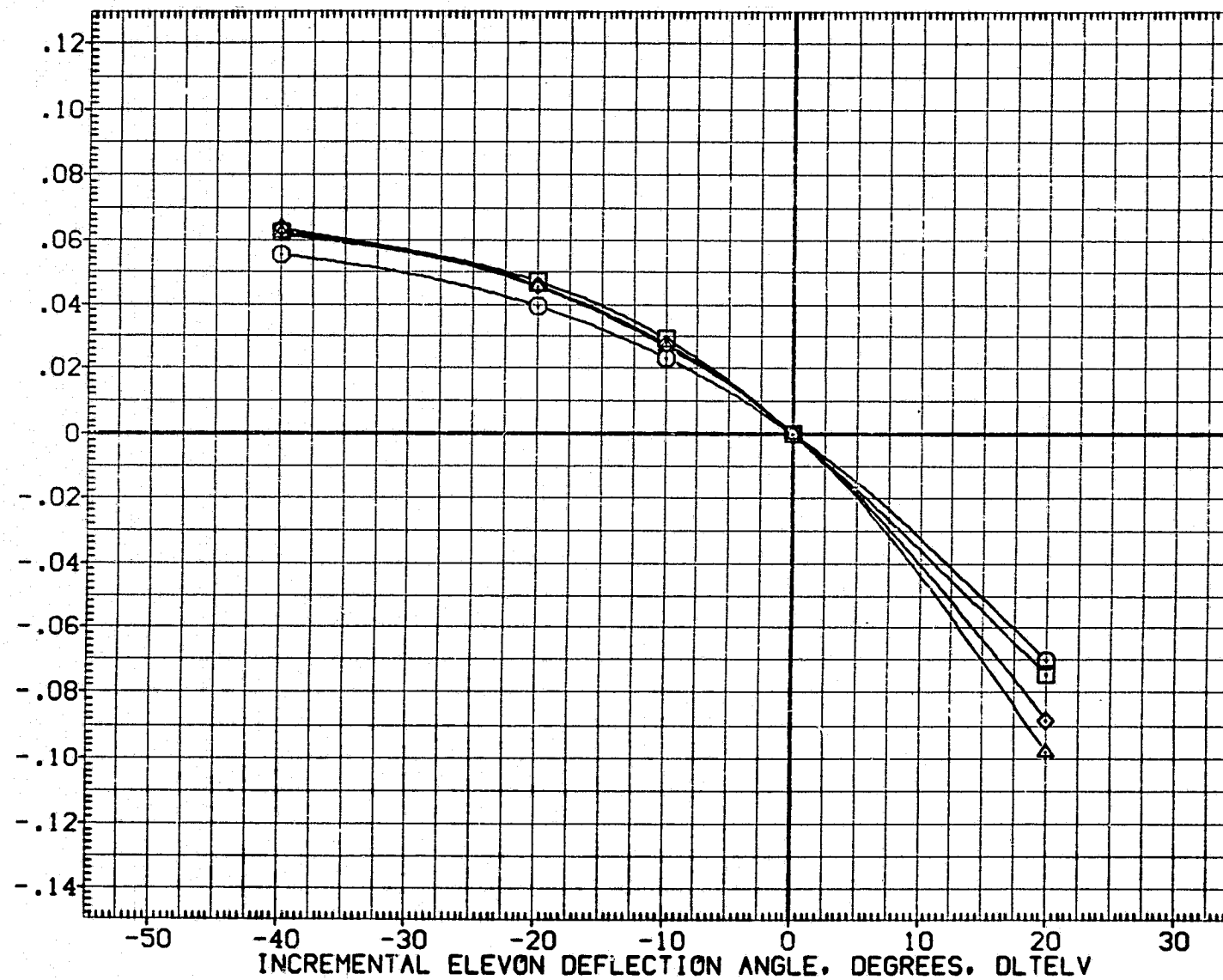


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2590.0000	50.FT.
○	-3.000		2.000		.000	DTV029	-40.000	DTV027	-20.000	LREF	474.8100	IN.
□	.000	BDFLAP	.000	RUDDER	.000	DTV025	-10.000	DTV005	.000	BREF	936.6800	IN.
◇	5.000					DTV020	20.000			XMRP	1076.6800	IN.X0
△	10.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL AXIAL FORCE COEFFICIENT, DLICA

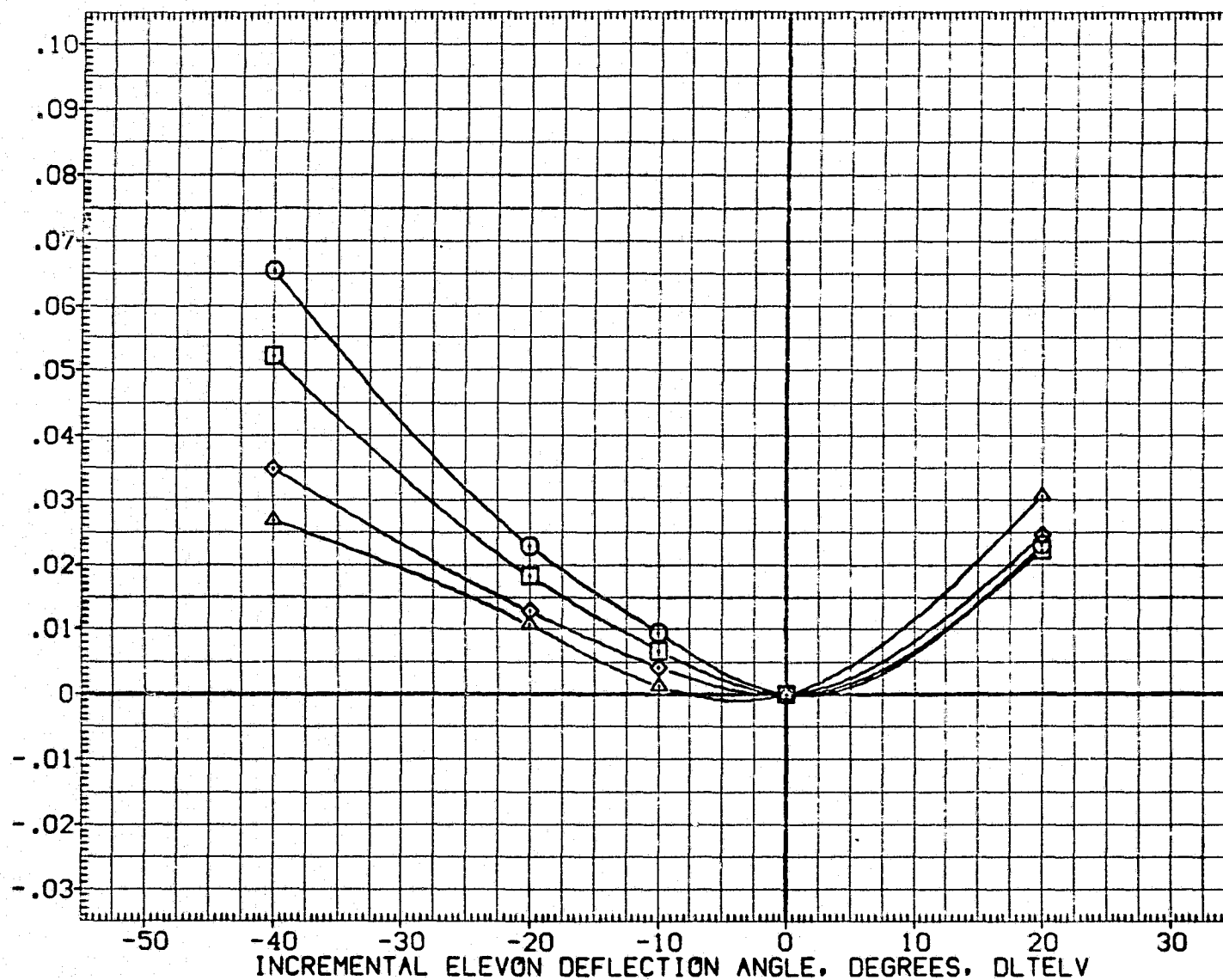


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	SO.FT.
○	15.000		2.000		.000	DTV029	-40.000	DTV027	-20.000	LREF	474.8100	IN.
□	20.000	BDFLAP	.000	RUDDER	.000	DTV025	-10.000	DTV005	.000	BREF	936.6800	IN.
◇	25.000					DTV020	20.000			XMRP	1076.6800	IN.X0
△	27.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL AXIAL FORCE COEFFICIENT, DLICA

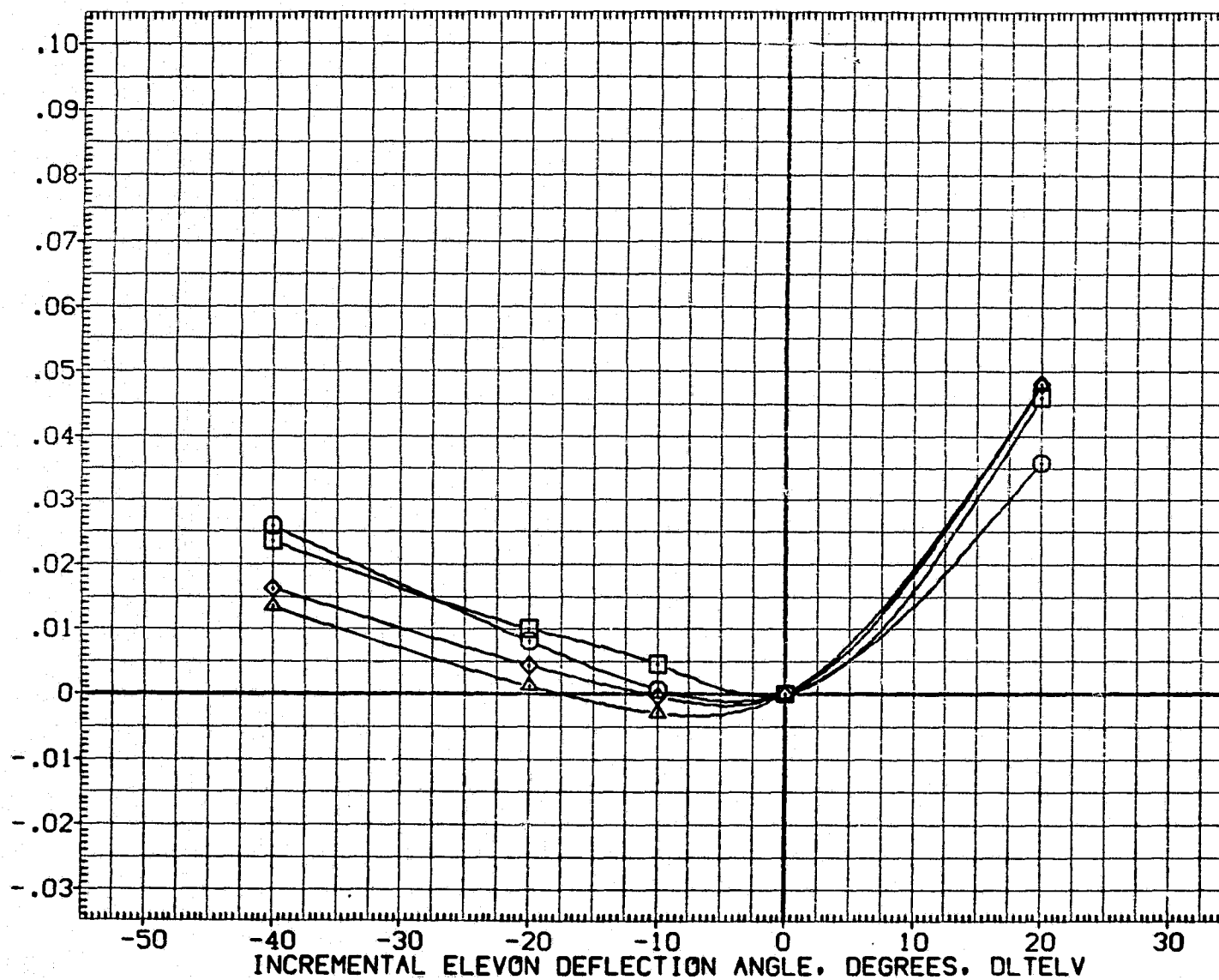
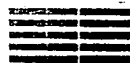


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS



0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	DLTEL0	DLTEL0	DLTEL0	SREF	REFERENCE INFORMATION
○	-3.000		2.000		.000 DATASET	-40.000	DTV027	-20.000	2690.0000	SQ.FT.
□	.000	BOFLAP	.000	RUDDER	.000 DTV029	-10.000	DTV005	.000	474.8100	IN.
◇	5.000				DTV025	20.000			276.6800	IN.
△	10.000				DTV020				1076.6300	IN.X0
									.0000	IN.Y0
									375.0000	IN.Z0
									.0150	

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCF

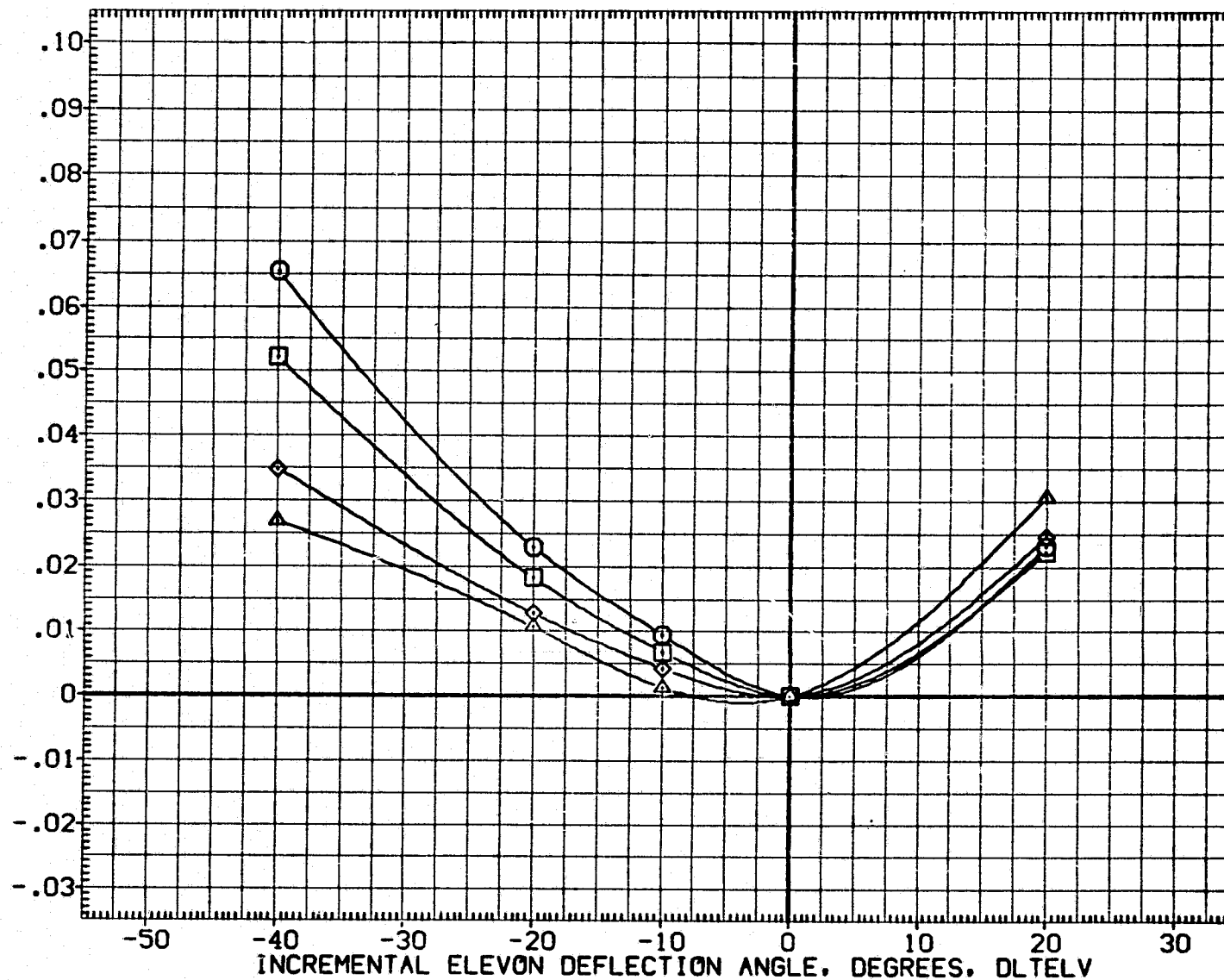


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	DLTELO	DATASET	DLTELO	SREF	REFERENCE INFORMATION	SQ.FT.
○	15.000		2.000		.000	DATASET	DLTELO	DATASET	DLTELO	2690.0000	
□	20.000	BDFLAP	.000	RUDDER	.000	DTV029	-40.000	DTV027	-20.000	474.8100	IN.
◇	25.000					DTV025	-10.000	DTV005	.000	936.6600	IN.
△	27.000					DTV020	20.000			1076.6300	IN.X0
										YMRP	.0000
										ZMRP	375.0000
										SCALE	.0150

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCF

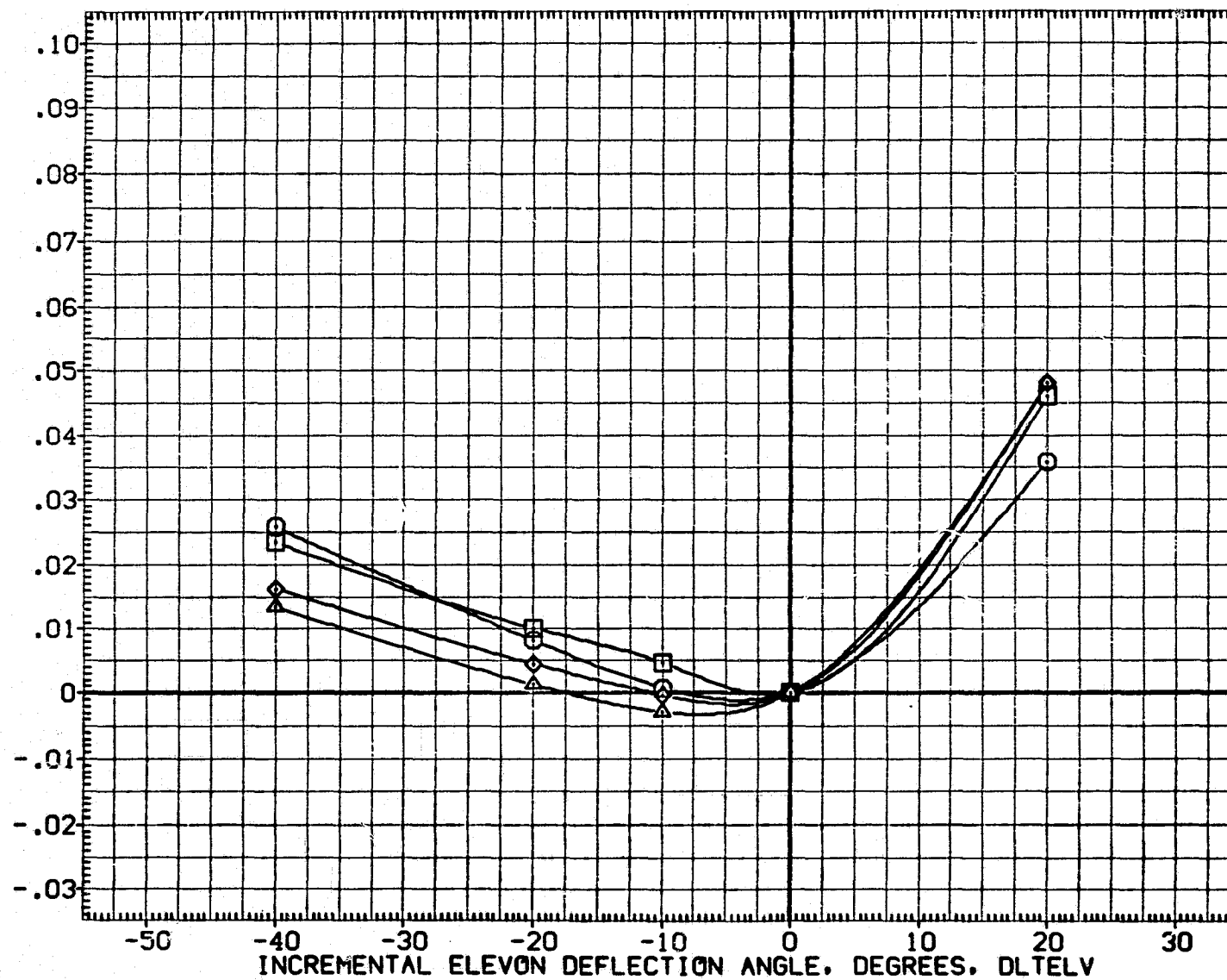


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000 DATASET	DLTEL0	DATASET	DLTEL0	SREF	REFERENCE INFORMATION
○	-3.000		4.000		.000	DTV029	-40.000	DTV027	-20.000	2690.0000 SQ.FT.
□	.000	BDFLAP	.000	RUDDER	.000	DTV025	-10.000	DTV005	.000	474.8100 IN.
◇	5.000					DTV020	20.000			936.6800 IN.
△	10.000									1076.6800 IN.X0
										YMRP .0000 IN.Y0
										ZMRP 375.0000 IN.Z0
										SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.) DLTCMF

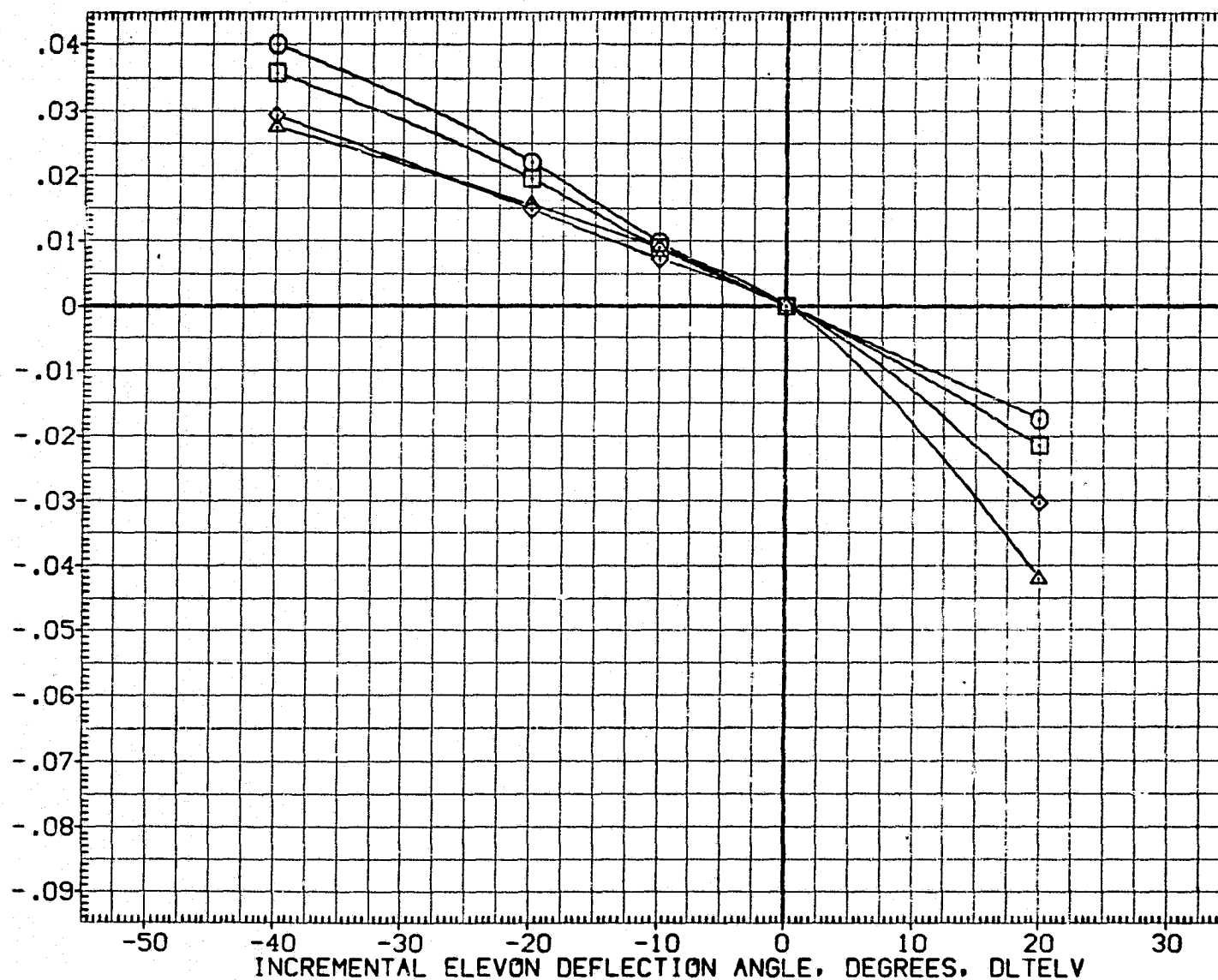


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	SQ.FT.
○	15.000		4.000		.000	DTV029	-40.000	DTV027	-20.000	LREF	474.8100	IN.
□	20.000	BOFLAP	.000	RUDDER	.000	DTV025	-10.000	DTV005	.000	BREF	936.6800	IN.
◇	25.000					DTV020	20.000			XMRP	1076.6800	IN.X0
△	27.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.) DLTCMF

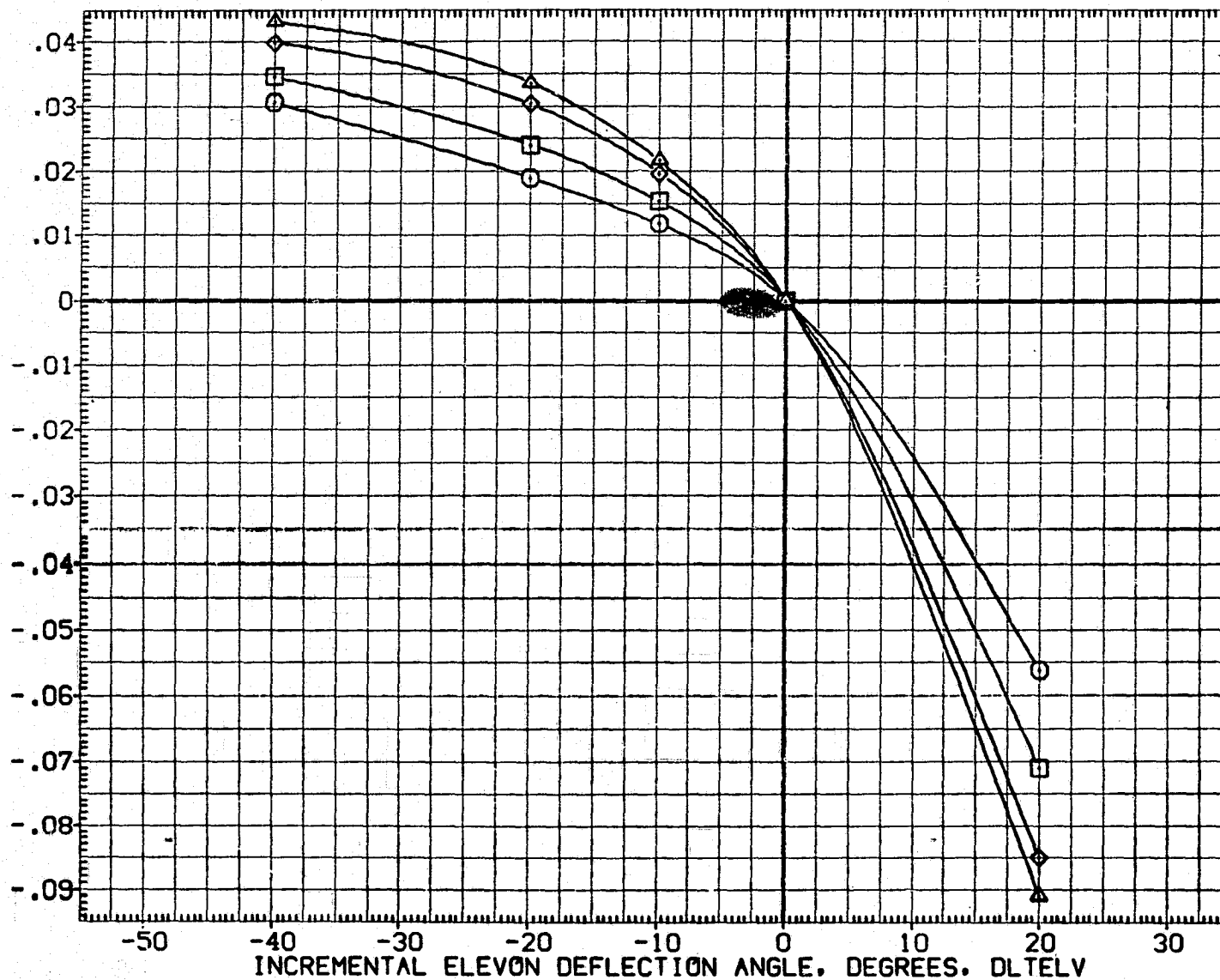


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

(DTV029)

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

 SYMBOL
 ○
 □
 ◇
 △

 ALPHA
 15.000
 20.000
 25.000
 27.000

 MACH
 BDFLAP

 PARAMETRIC VALUES
 4.000 BETA
 .000 RUDDER

 .000 DATASET
 .000 DTV029
 DTV025
 DTV020

DATA SOURCE

 DLTEL0
 -40.000
 -10.000
 20.000

 DATASET
 DTV027
 DTV005

 DLTEL0
 -20.000
 .000

 REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1076.6800 IN.X0
 YMRP .0000 IN.Y0
 ZMRP 375.0000 IN.Z0
 SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.) DLTCMA

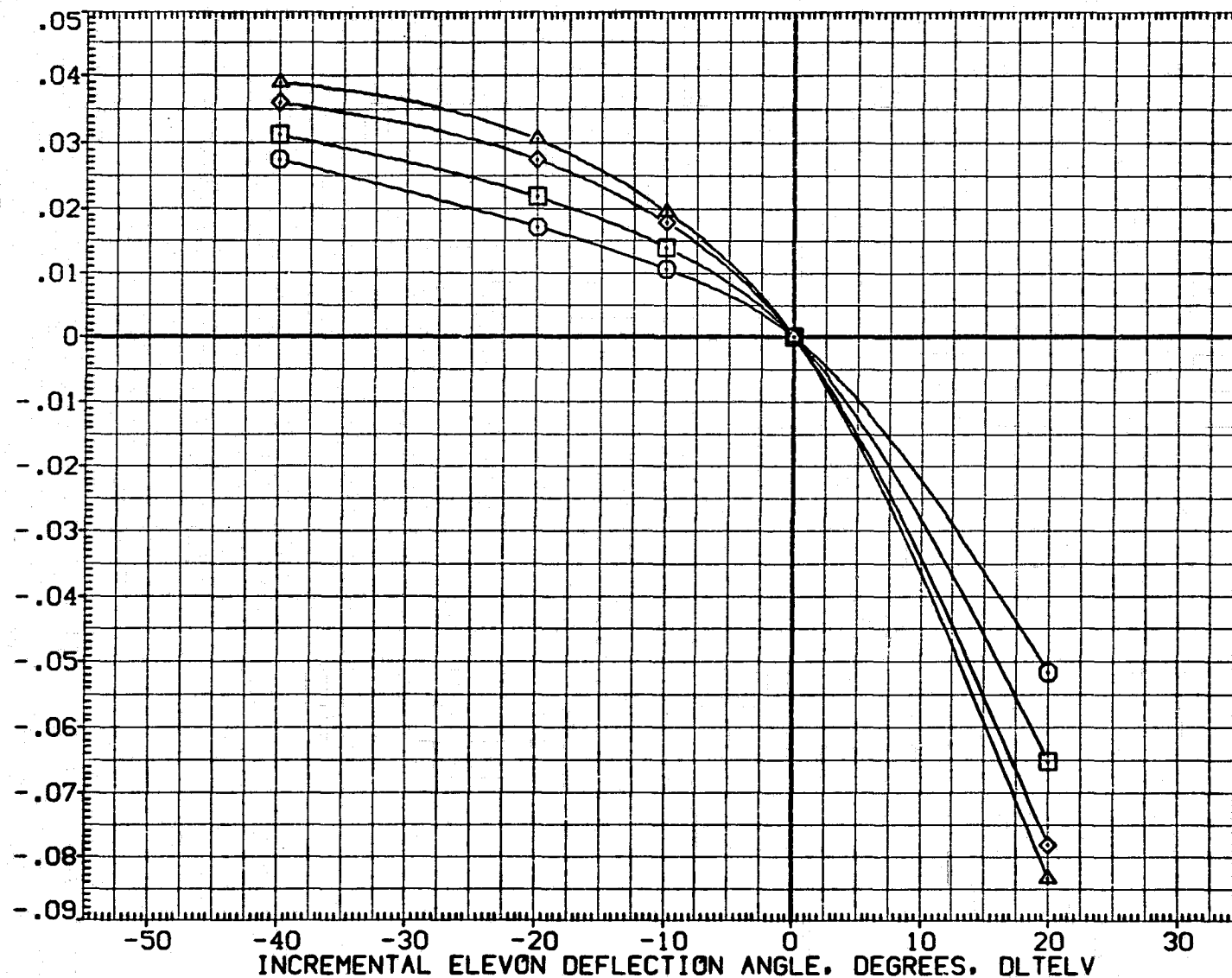


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL		ALPHA		PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	-3.000	MACH	4.000	BETA	.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	SQ.FT.
□	.000	BDFLAP	.000	RUDDER	.000	DTV029	-40.000	DTV027	-20.000	LREF	.474.8100	IN.
◇	5.000					DTV025	-10.000	DTV005	.000	BREF	936.6800	IN.
△	10.000					DTV020	20.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL AXIAL FORCE COEFFICIENT, DLTCA

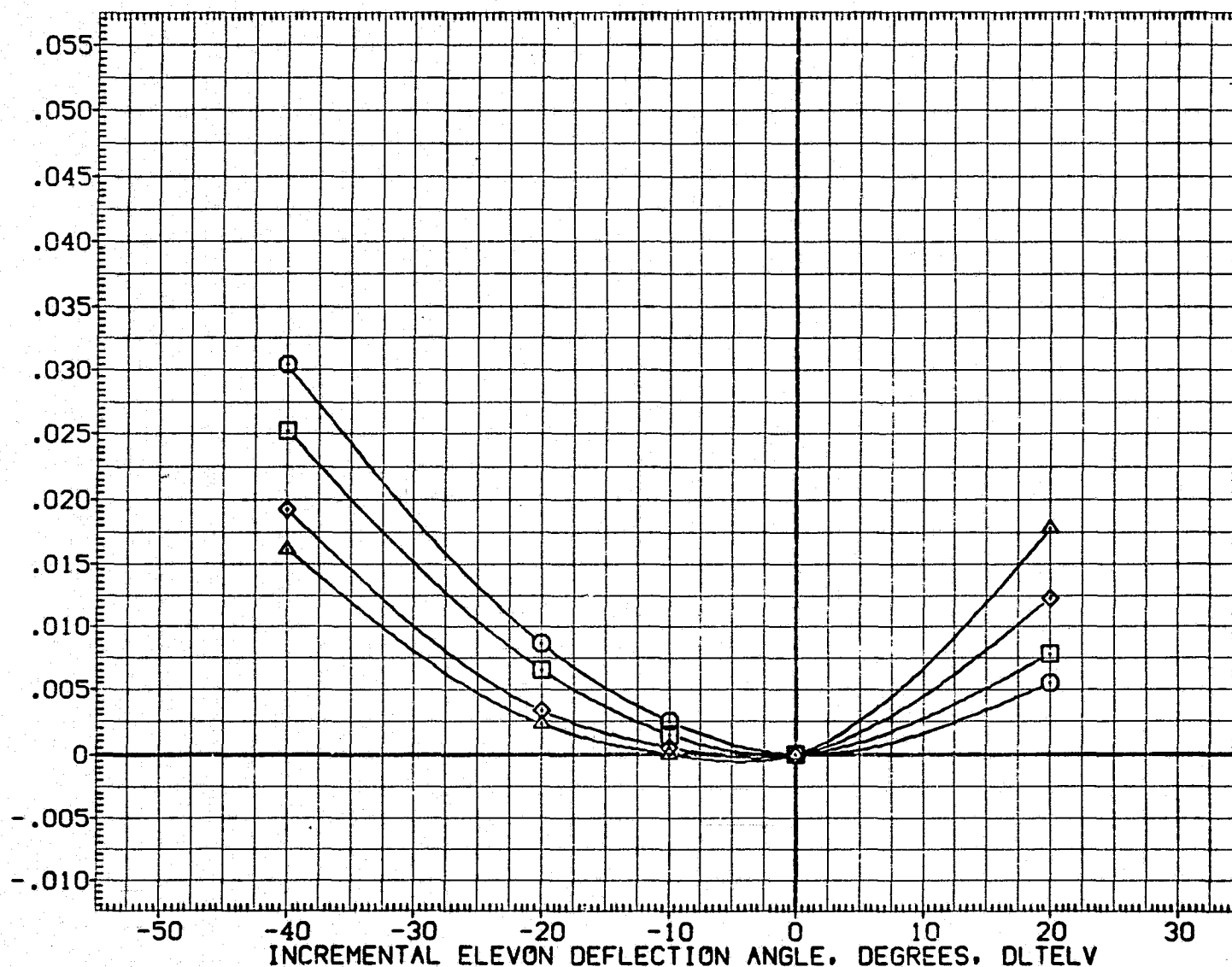


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL

○
□
◇
△

ALPHA

15.000
20.000
25.000
27.000

MACH
BDFLAP

PARAMETRIC VALUES

4.000 BETA
.000 RUDDER

.000 DATASET
.000 DTV029
DTV025
DTV020

DATA SOURCE

DLTEL0
-40.000
-10.000
20.000

DATASET
DTV027
DTV005

DLTEL0
-20.000
.000

SREF 2690.0000
LREF 474.8100
BREF 936.6800
XMRP 1076.6800
YMRP .0000
ZMRP 375.0000
SCALE .0150

REFERENCE INFORMATION

50.FT.
IN.
IN.X0
IN.Y0
IN.Z0

INCREMENTAL AXIAL FORCE COEFFICIENT, DLICA

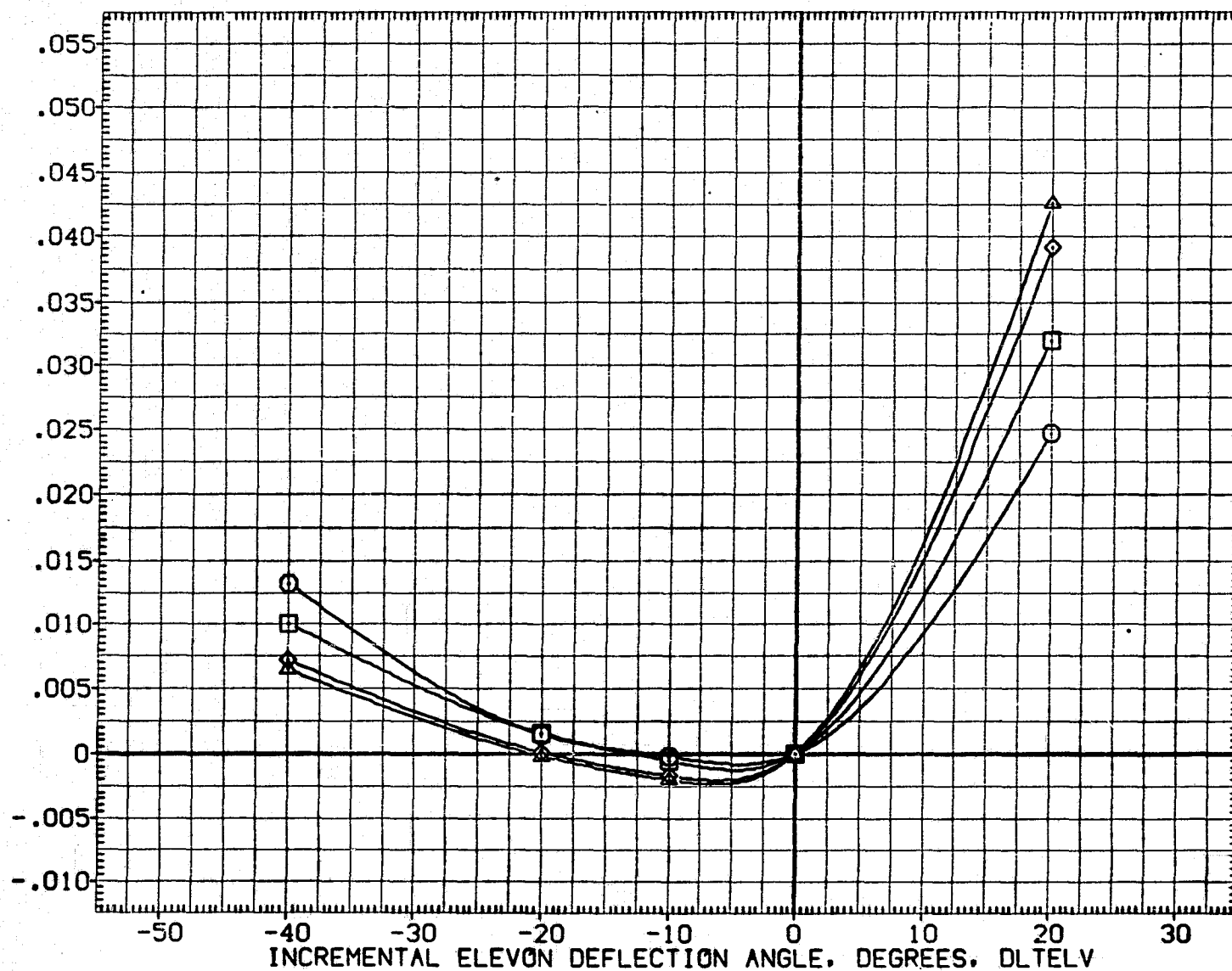


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	-3.000		4.000 BETA	.000 DATASET	SREF 2690.0000 SQ.FT.
□	.000	80FLAP	.000 RUDDER	.000 DTV029	LREF 474.8100 IN.
◇	5.000			.000 DTV025	BREF 936.6800 IN.
△	10.000			.000 DTV020	XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCF

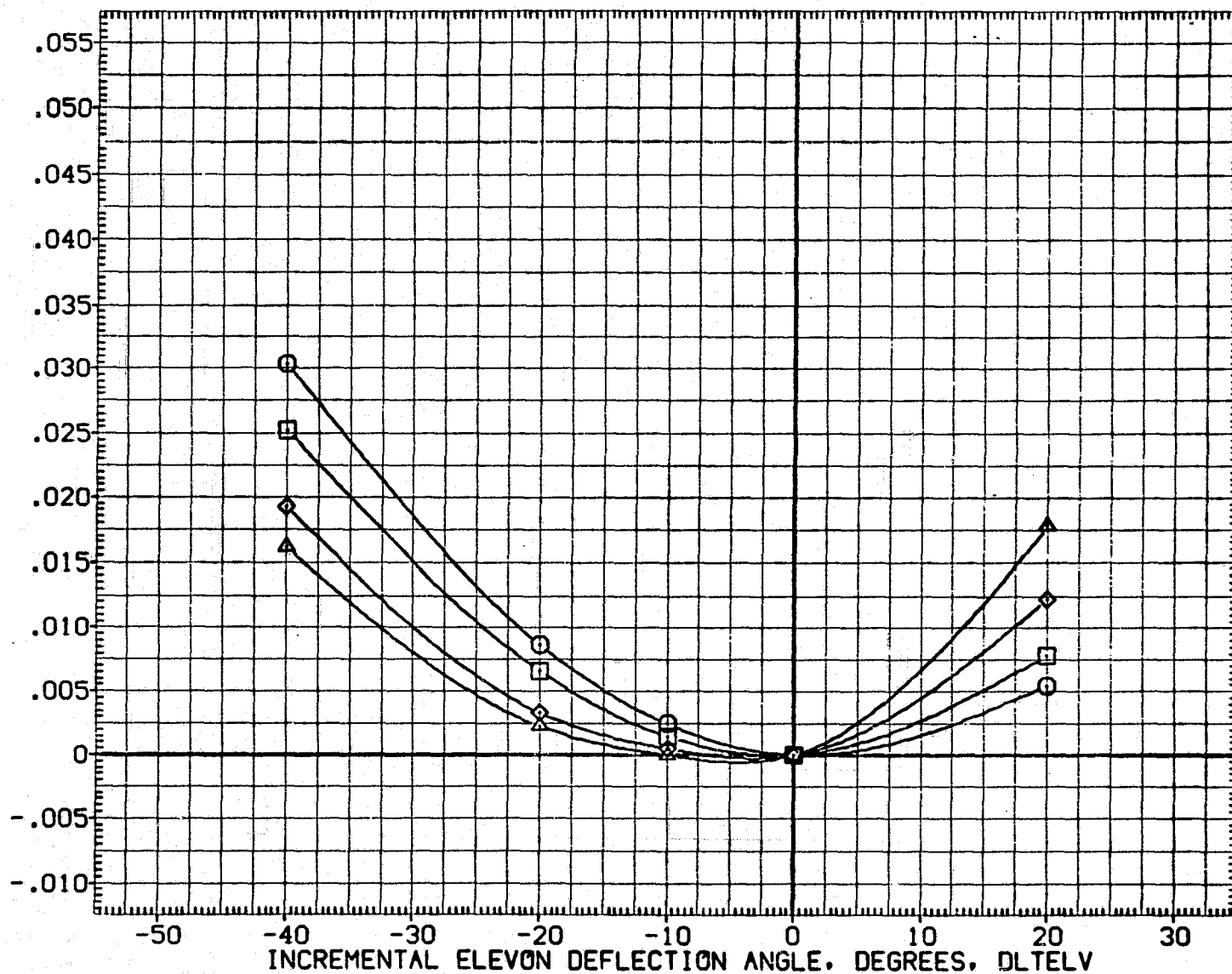


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	15.000		4.000 BETA	.000 DATASET	SREF 2690.0000 SQ.FT.
□	20.000	BDFLAP	.000 RUDDER	.000 DTV029	LREF 474.8100 IN.
◇	25.000			.000 DTV025	BREF 936.6800 IN.
△	27.000			.000 DTV020	XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCAP

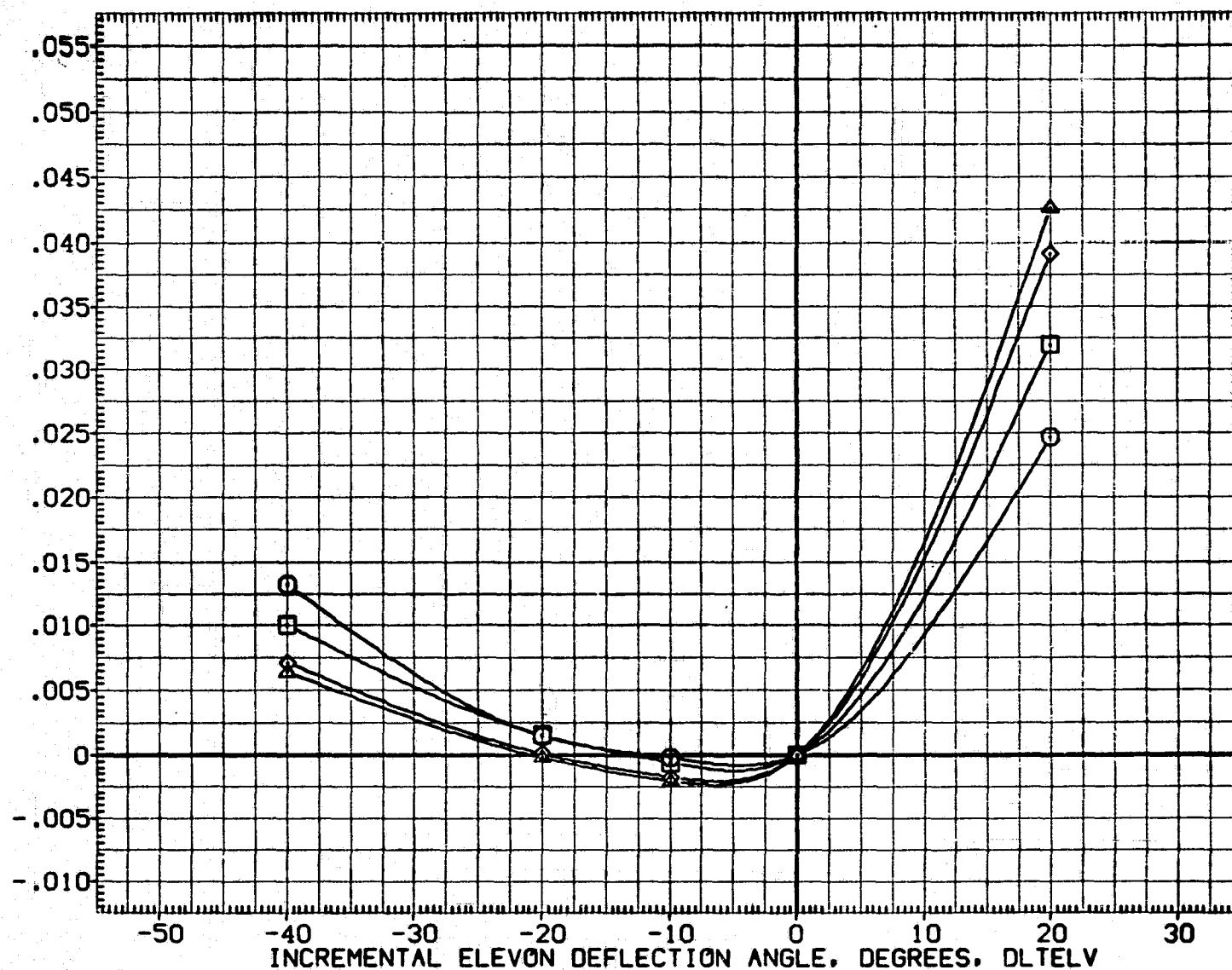


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA		PARAMETRIC VALUES		DATA SOURCE				REFERENCE INFORMATION			
○	-3.000	MACH	5.000	BETA	.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	SQ.FT.
□	.000	BDFLAP	.000	RUDDER	.000	DTV029	-40.000	DTV027	-20.000	LREF	474.8100	IN.
◇	5.000					DTV025	-10.000	DTV005	.000	BREF	936.6800	IN.
△	10.000					DTV020	20.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.) DLTCMF

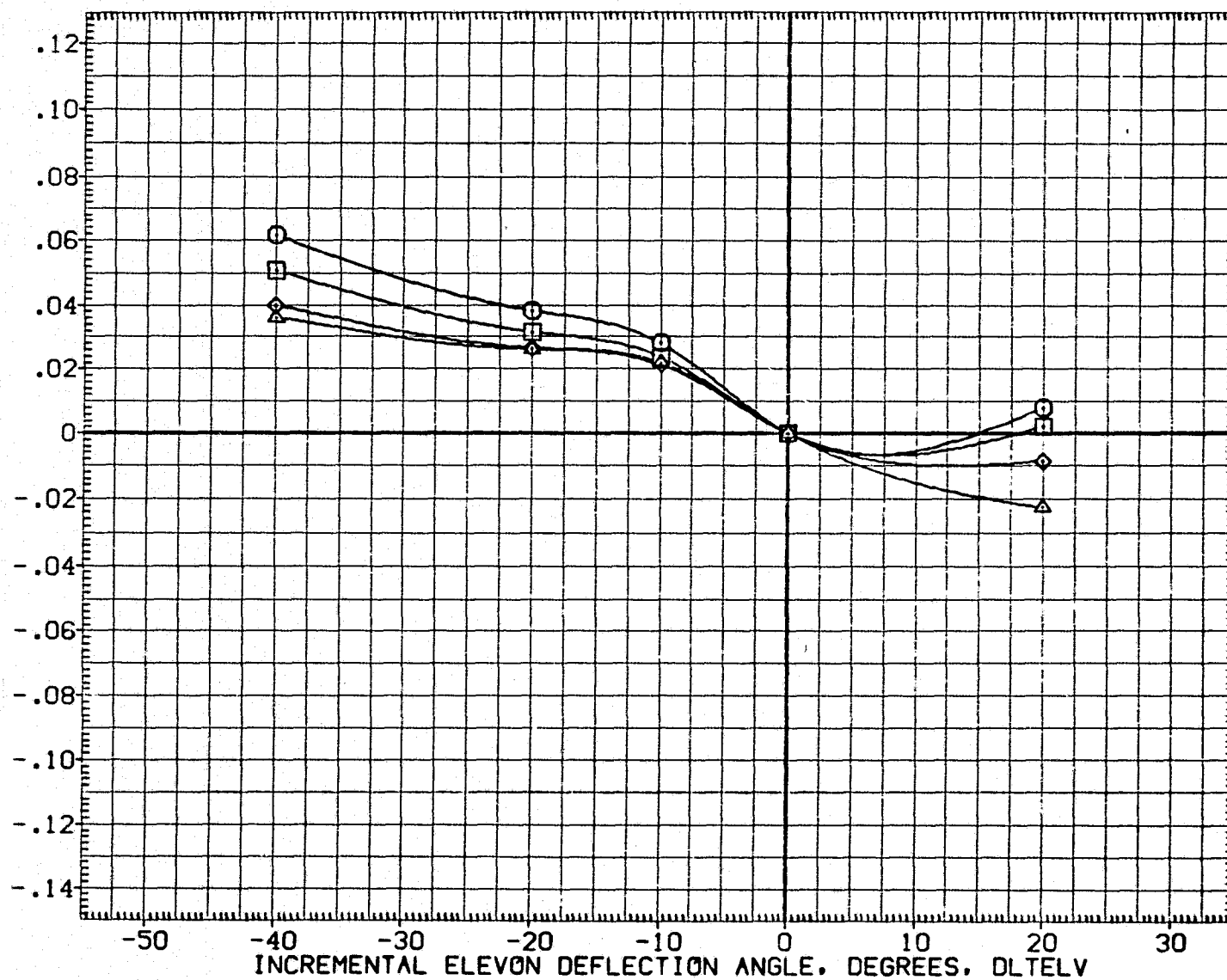


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL

○
□
◇
△

ALPHA

15.000
20.000
25.000
27.000

MACH

BOFLAP

PARAMETRIC VALUES

5.000 BETA
.000 RUDDER

.000 DATASET
.000 DTV029
DTV025
DTV020

DATA SOURCE

DLTEL0
-40.000
-10.000
20.000

DATASET
DTV027
DTV005

DLTEL0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.) DLTCMF

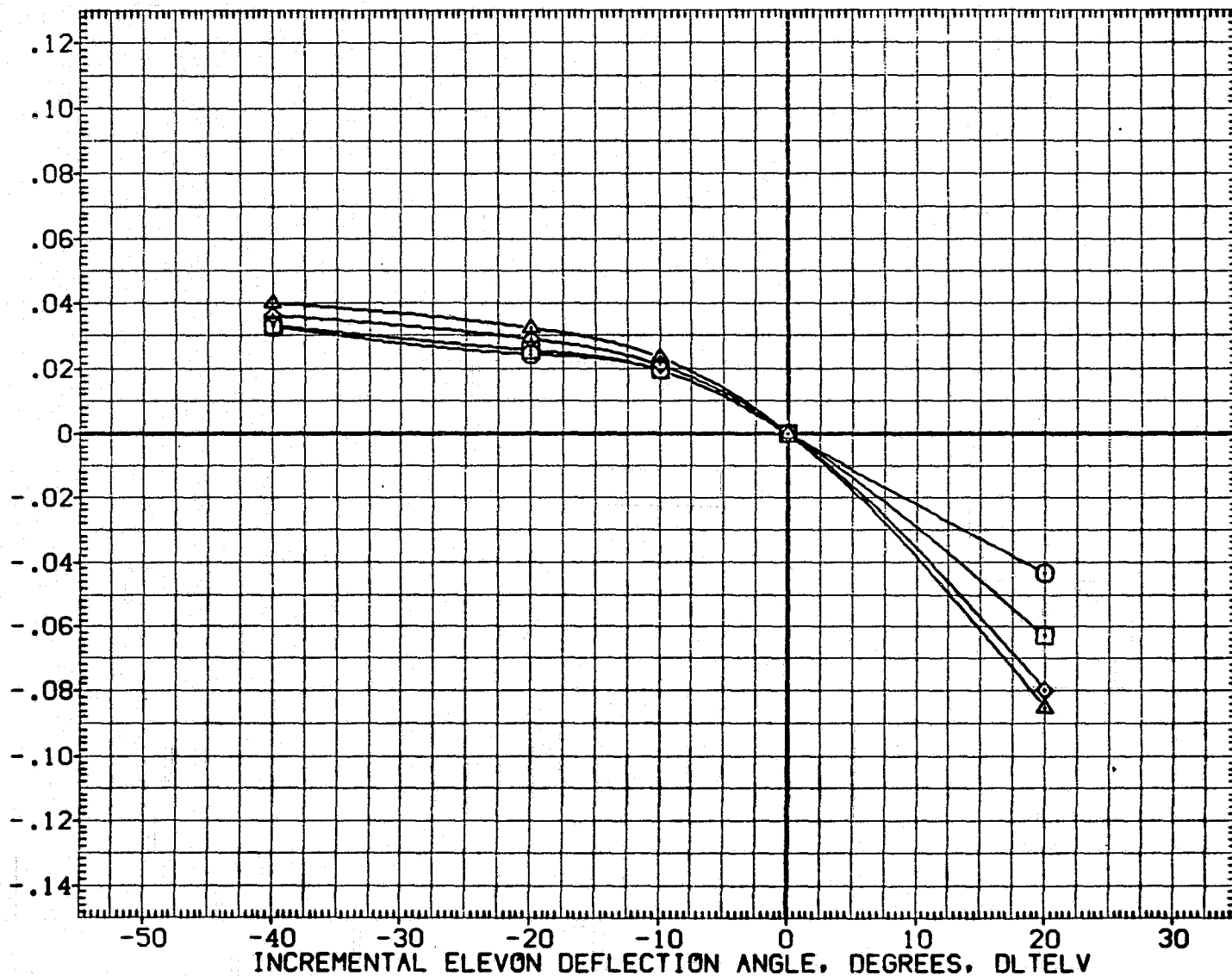


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH
BDFLAP

PARAMETRIC VALUES

5.000 BETA
.000 RUDDER

.000 DATASET
.000 DTV029
DTV025
DTV020

DATA SOURCE

DLTELO
-40.000
-10.000
20.000

DATASET
DTV027
DTV005

DLTELO
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.) DLTCMA

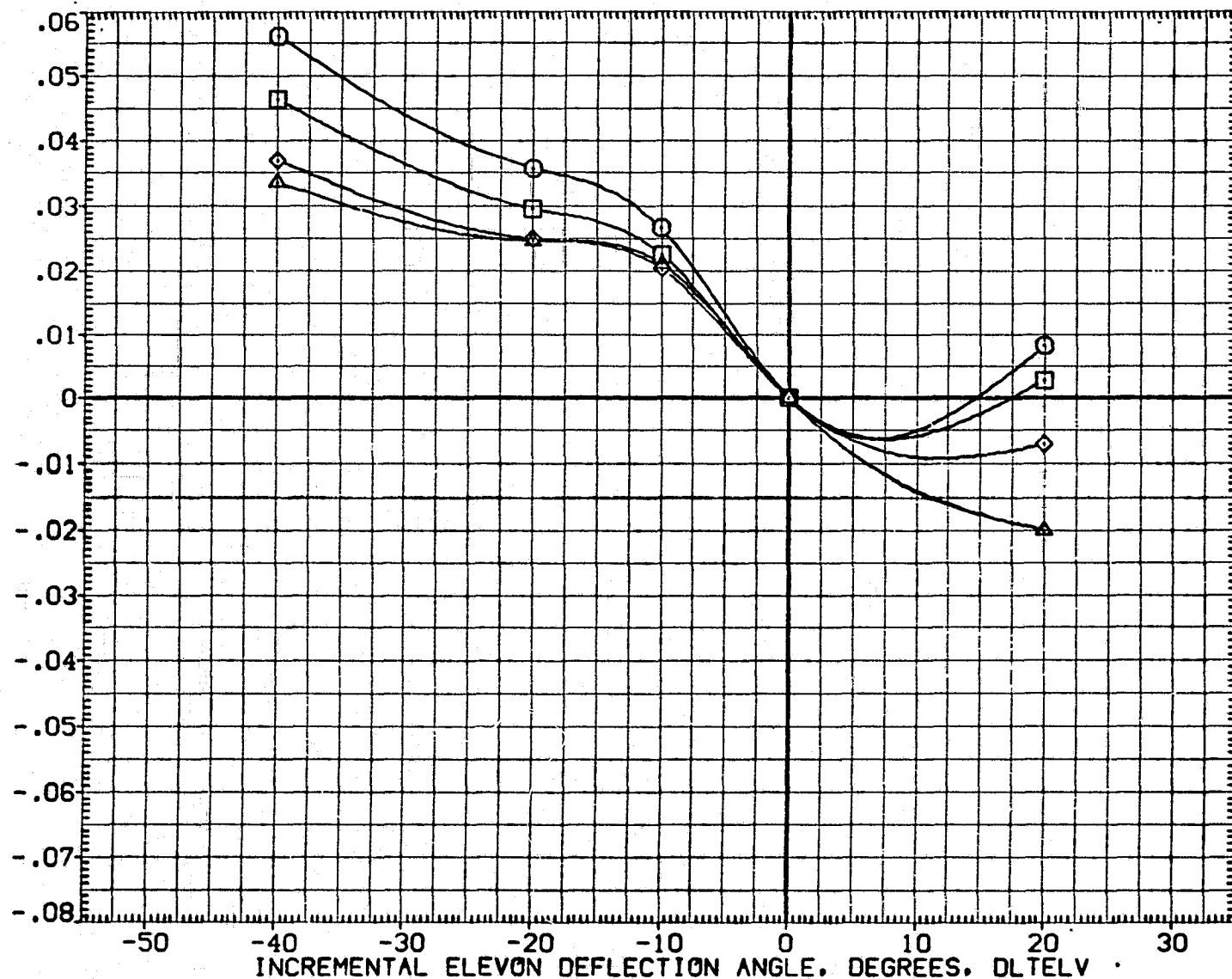


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL

○
□
◇
△

ALPHA

15.000
20.000
25.000
27.000

MACH
BDFLAP

PARAMETRIC VALUES

5.000 BETA
.000 RUDDER

.000 DATASET
.000 DTV029
DTV025
DTV020

DATA SOURCE

DLTEL0
-40.000
-10.000
20.000

DATASET
DTV027
DTV005

DLTEL0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.) DLTCMA

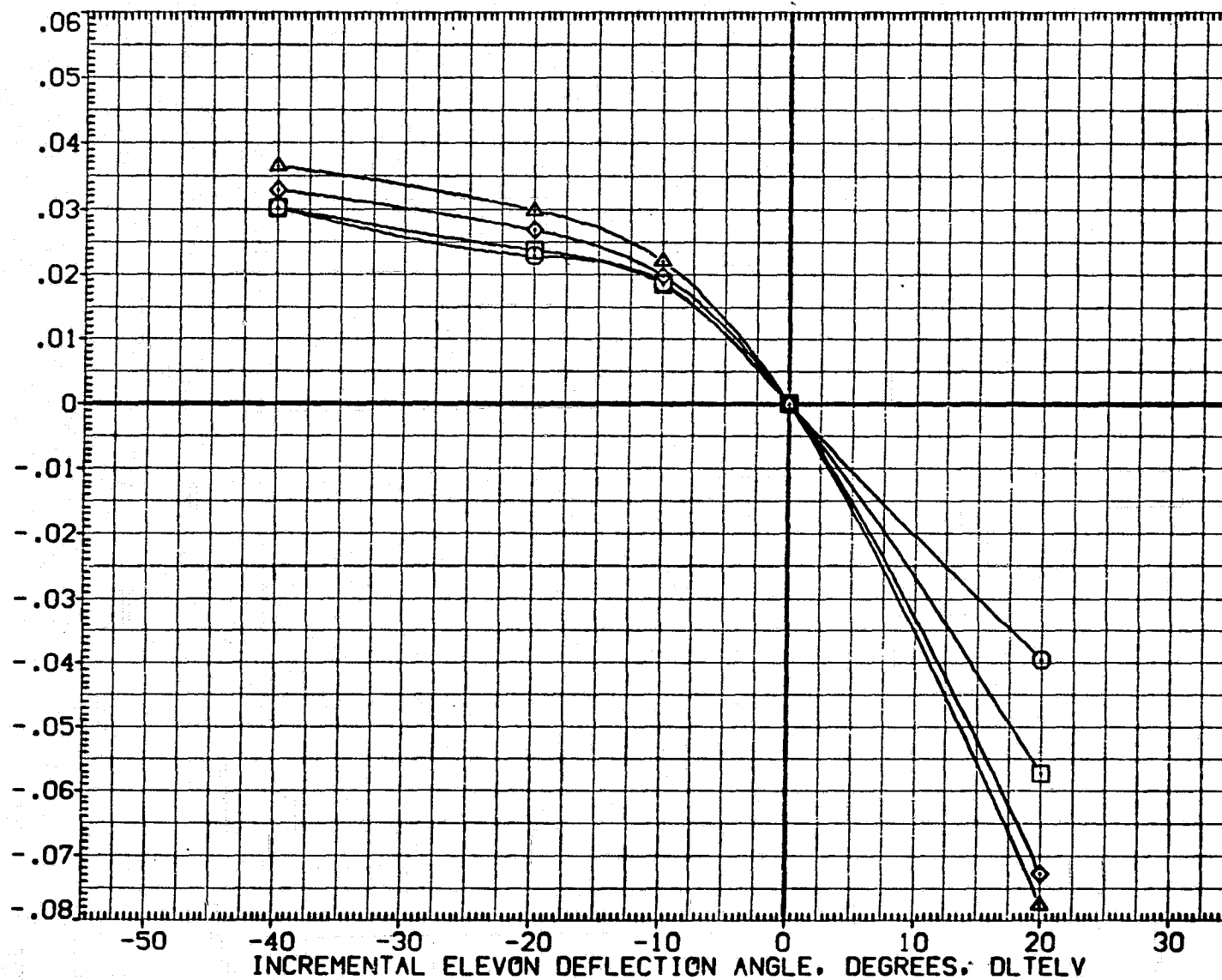


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	DTTEL0	DTTEL0	DTTEL0	SREF	REFERENCE INFORMATION
○	-3.000		5.000		.000	DTV029	-40.000	DTV027	-20.000	2690.0000 SQ.FT.
□	.000	BDFLAP	.000	RUDDER	.000	DTV029	-40.000	DTV027	-20.000	474.8100 IN.
◇	5.000				.000	DTV025	-10.000	DTV005	.000	936.6800 IN.
△	10.000				.000	DTV020	20.000			1076.6800 IN.X0
										.0000 IN.Y0
										375.0000 IN.Z0
										SCALE .0150

INCREMENTAL AXIAL FORCE COEFFICIENT, DLICA

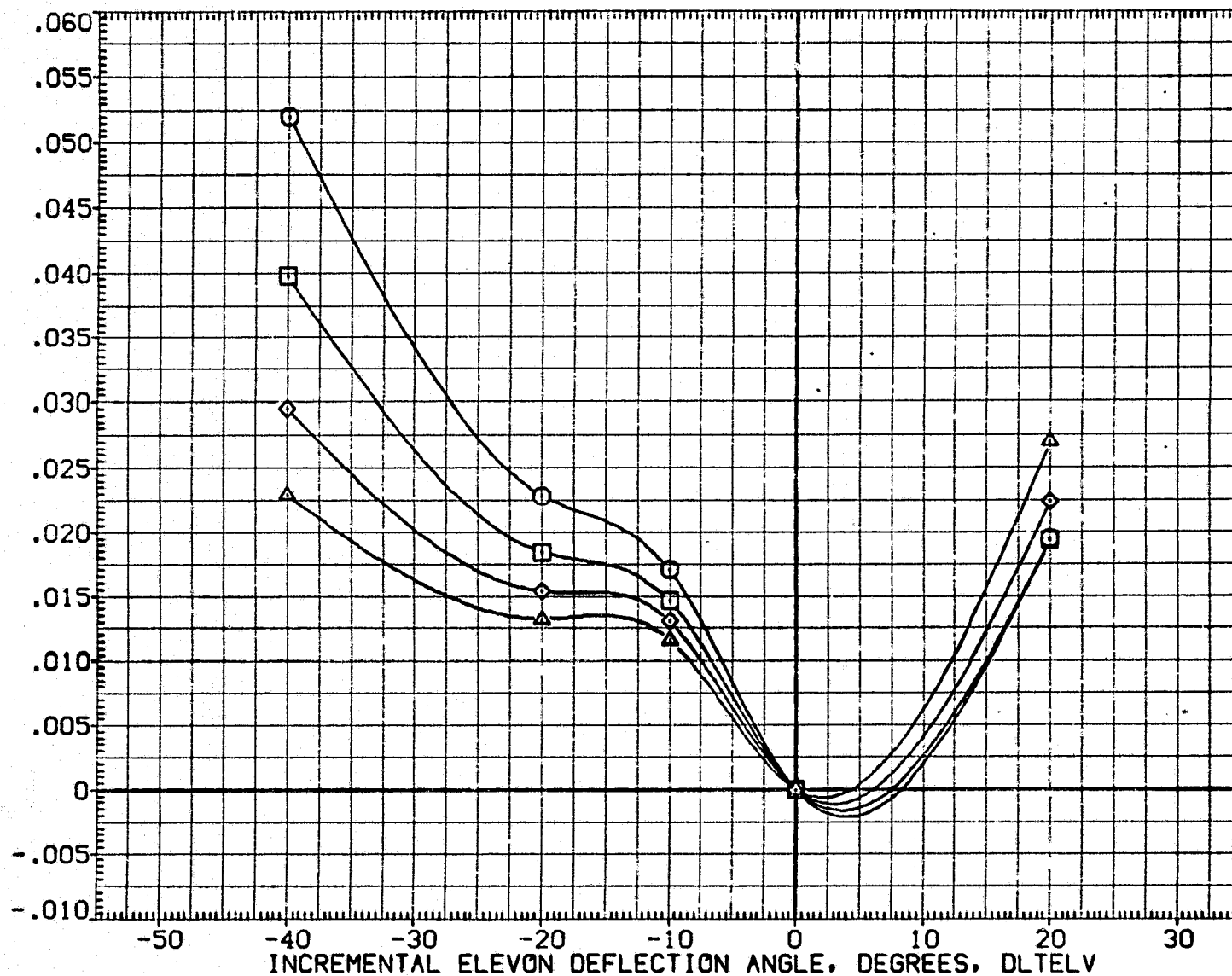


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

(DTV029)

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATA SOURCE	REFERENCE INFORMATION
○	-3.000	5.000	BETA	.000	DATASET	SREF 2690.0000 SQ.FT.
□	.000	BOFLAP	RUDDER	.000	DTV029	LREF 474.8100 IN.
◇	5.000			.000	DTV025	BREF 936.6800 IN.
△	10.000			.000	DTV020	XMRP 1076.6800 IN.X0
						YMRP .0000 IN.Y0
						ZMRP 375.0000 IN.Z0
						SCALE .0150

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCF

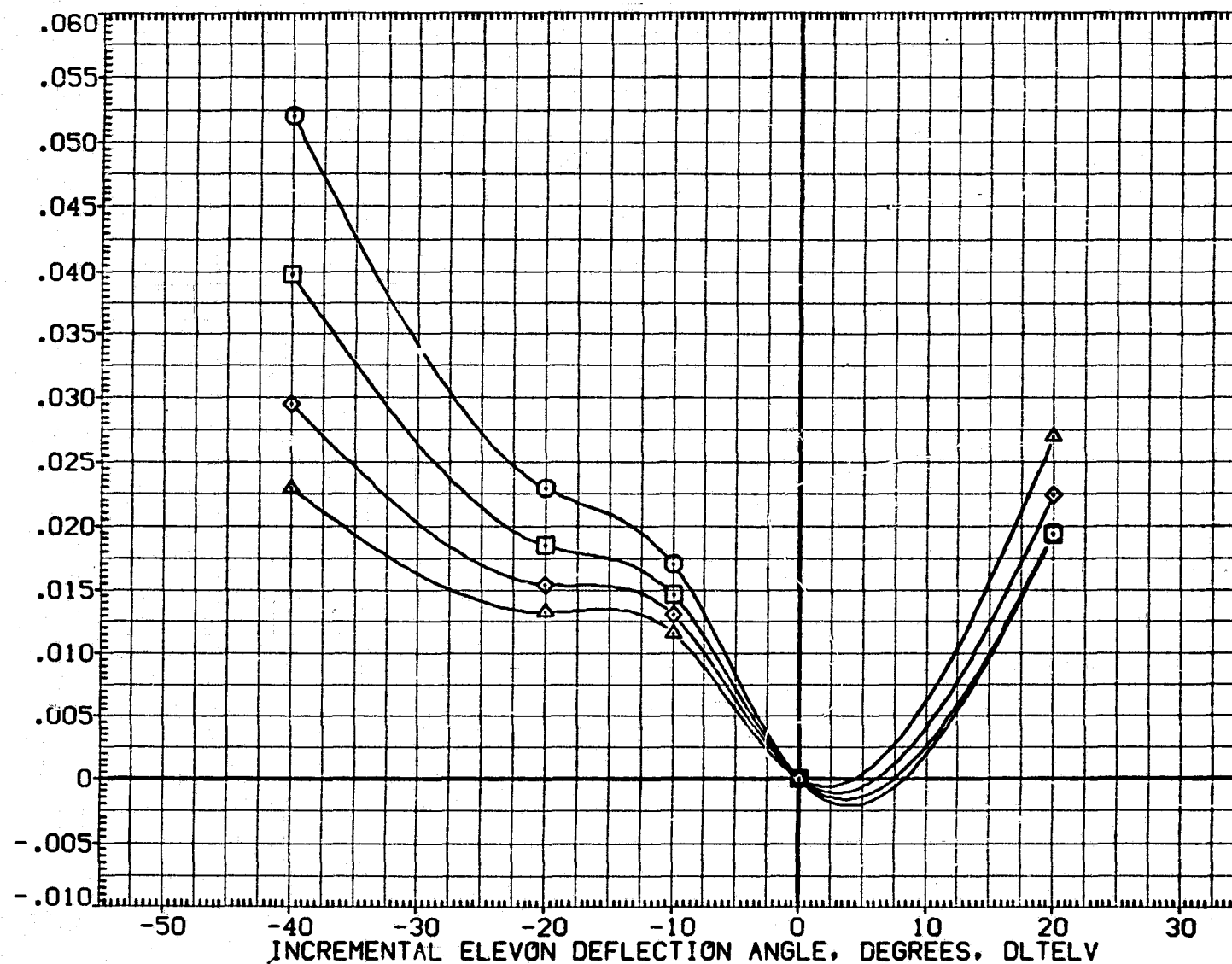


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	DLTEL0	DATA SET	DLTEL0	SREF	2690.0000	SO.FT.
○	15.000		5.000		.000	DTV029	-40.000	DTV027	-20.000	474.8100	IN.
□	20.000	BDFLAP	.000	RUDDER	.000	DTV025	-10.000	DTV005	.000	936.6800	IN.
◇	25.000					DTV020	20.000			1076.6800	IN.X0
△	27.000									.0000	IN.Y0
										375.0000	IN.Z0
										.0150	

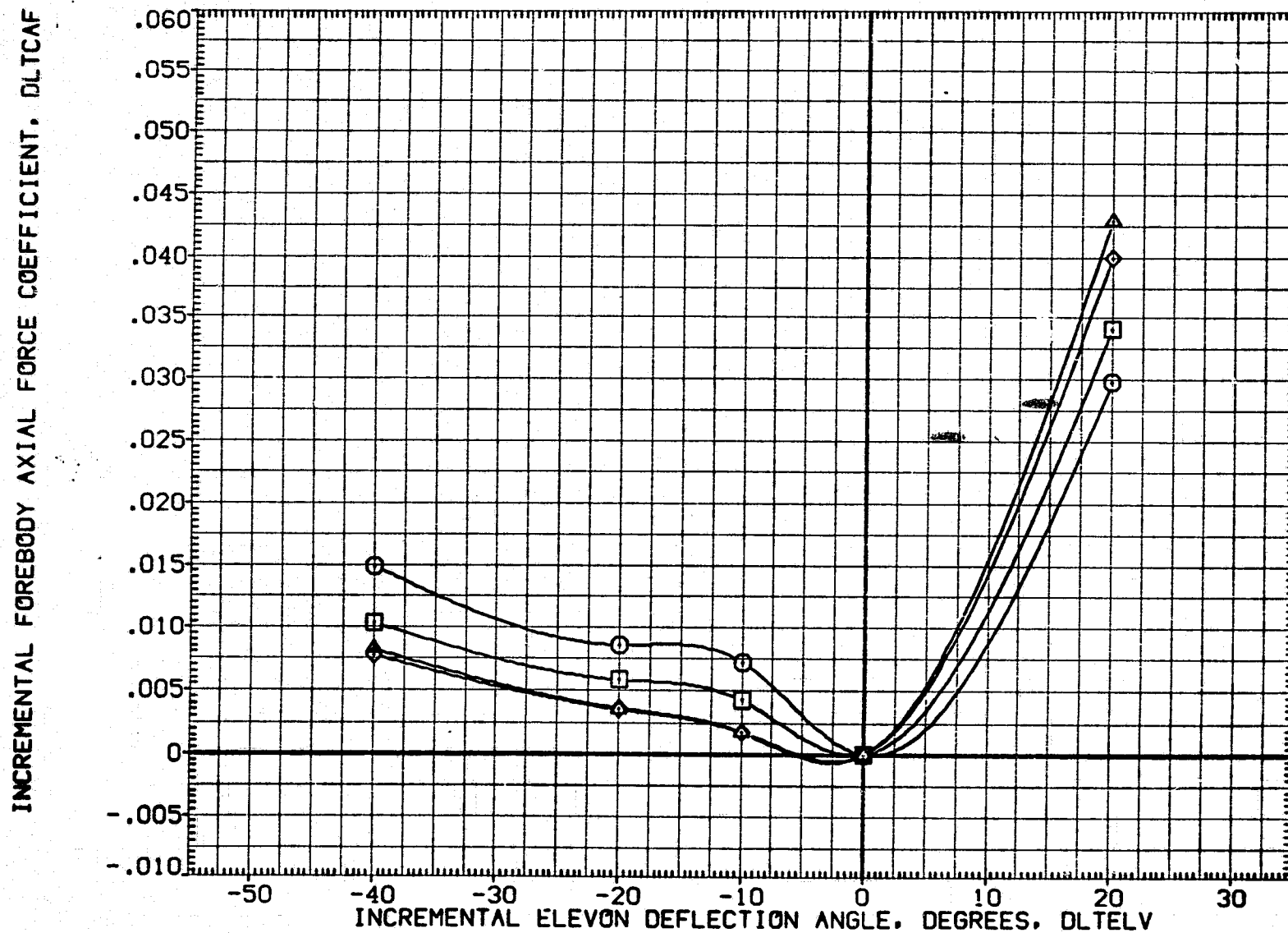


FIG. 8 INCREMENTAL EFFECTS OF FULL SPAN ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

-2.000
.000
2.000
4.000

MACH
BDFLAP

PARAMETRIC VALUES

2.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0 DATASET
-40.000 ATV027
-10.000 ATV005
20.000

ELV-L0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

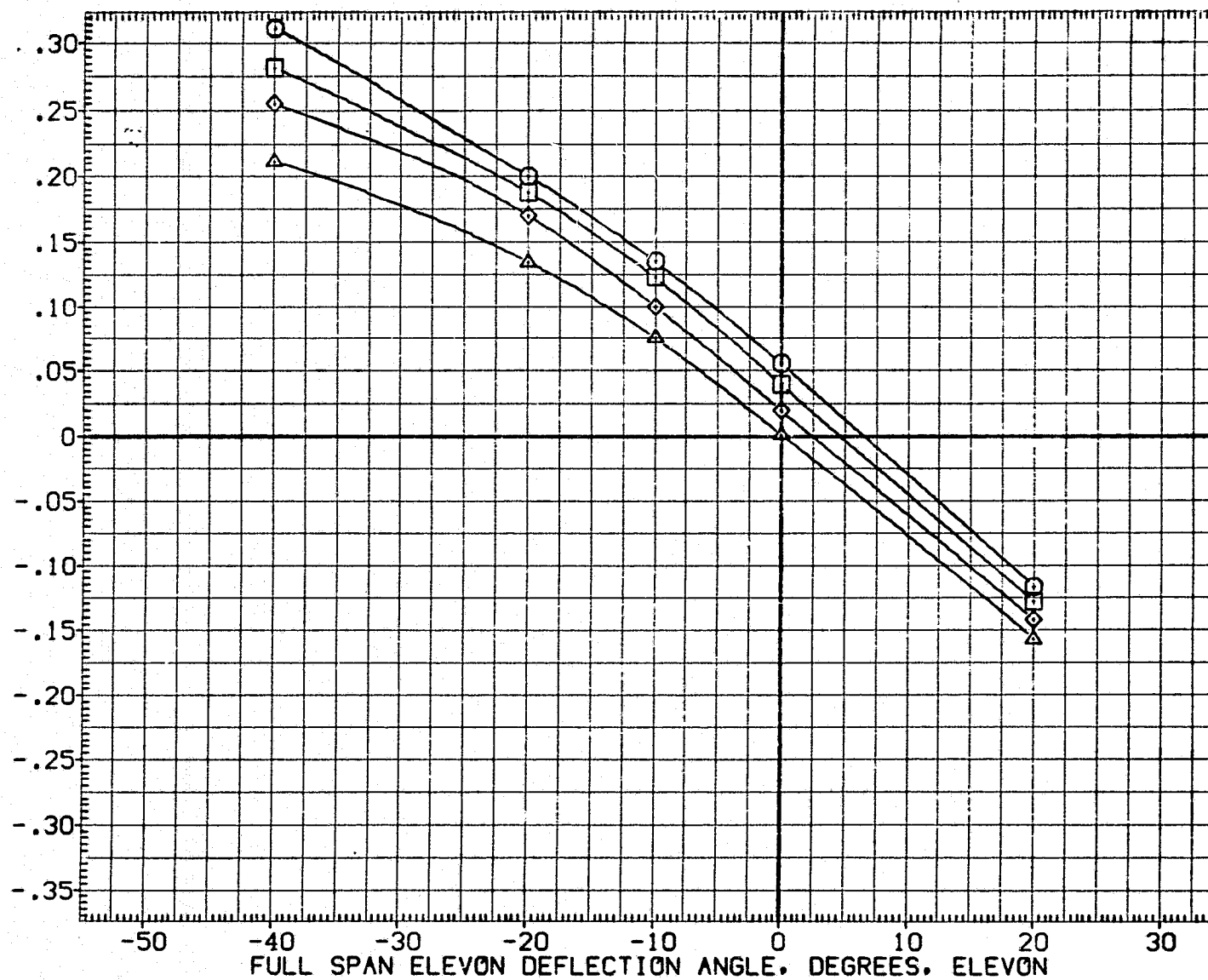


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	6.000		2.000 BETA	.000 DATASET	ELV-L0 SREF 2690.0000 SQ. FT.
□	8.000	BDFLAP	.000 RUDDER	.000 DATASET	ELV-L0 LREF 474.8100 IN.
◇	10.000			ATV029 -40.000	ATV027 -20.000 BREF 936.6800 IN.
△	12.000			ATV025 -10.000	ATV005 .000 XMRP 1076.6800 IN. X0
				ATV020 20.000	YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0150

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

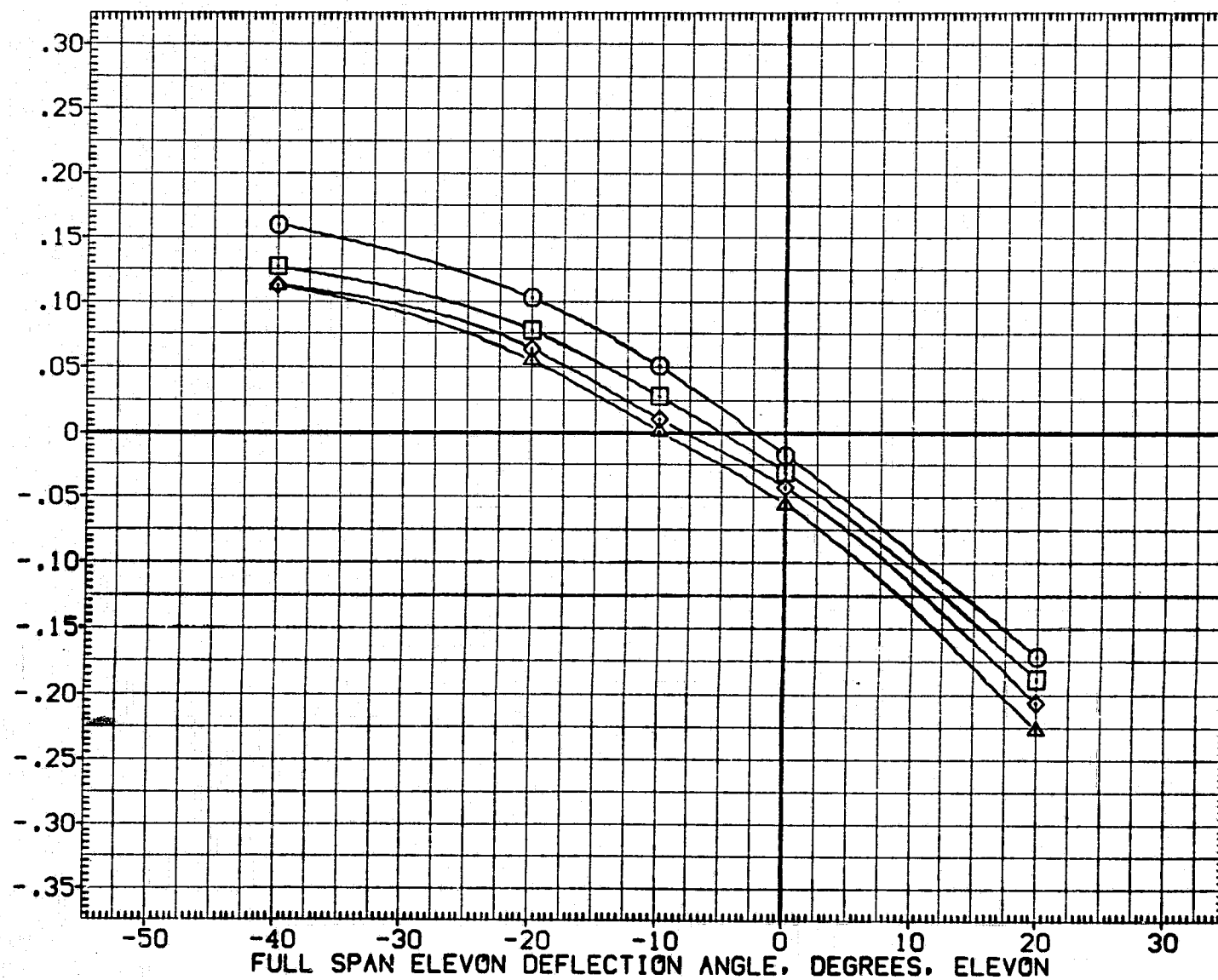


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

(ATV029)

SYMBOL		ALPHA		PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION				
○	14.000	MACH	2.000	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	SO.FT.
□	16.000	BDFLAP	.000	RUDDER	.000	ATV029	-40.000	ATV027	-20.000	LREF	474.8100	IN.
◇	18.000					ATV025	-10.000	ATV005	.000	BREF	936.6800	IN.
△	20.000					ATV020	20.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

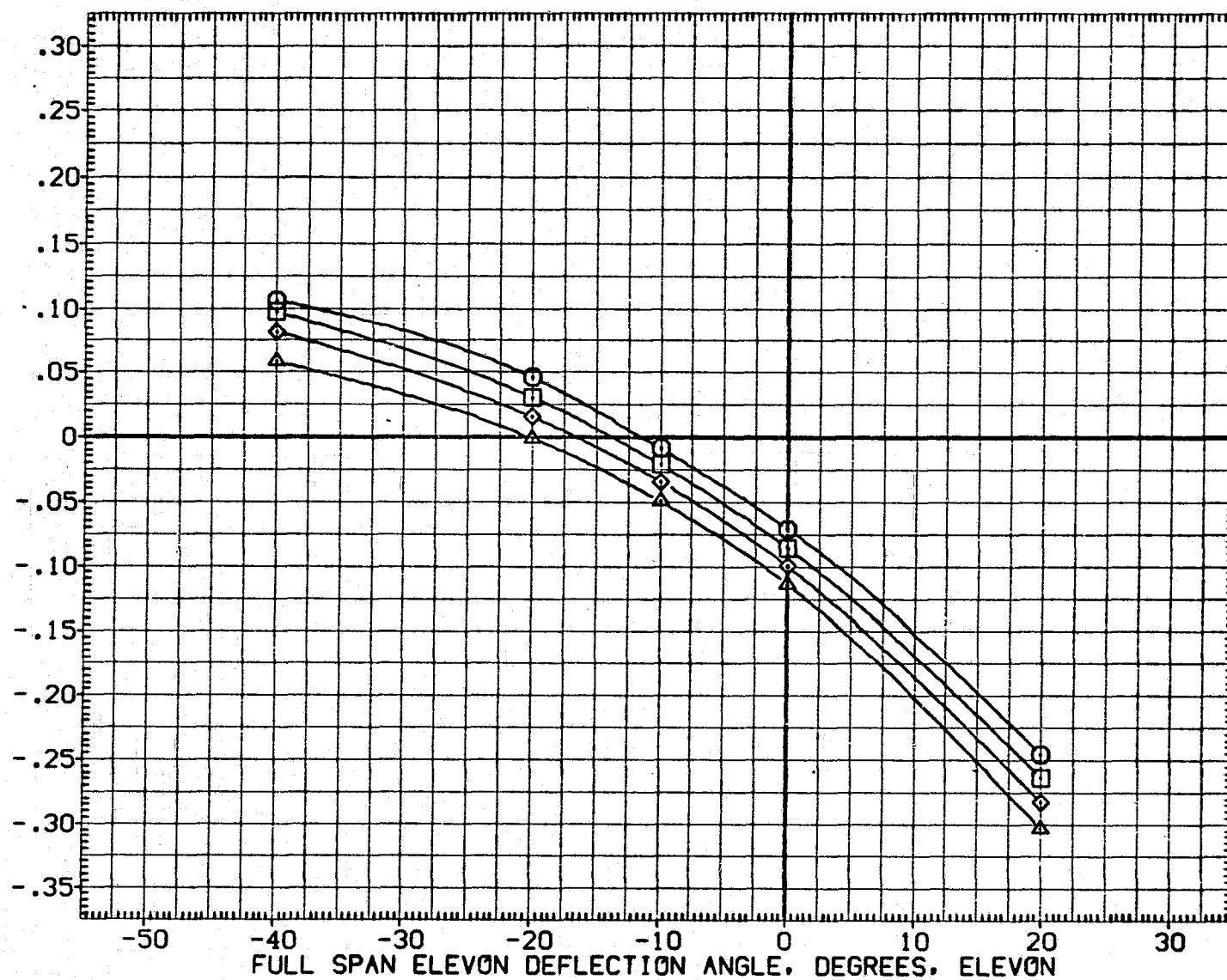


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL
○
□
◇
△

ALPHA
22.000
24.000
26.000
27.000

MACH
90FLAP

PARAMETRIC VALUES
2.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE
ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

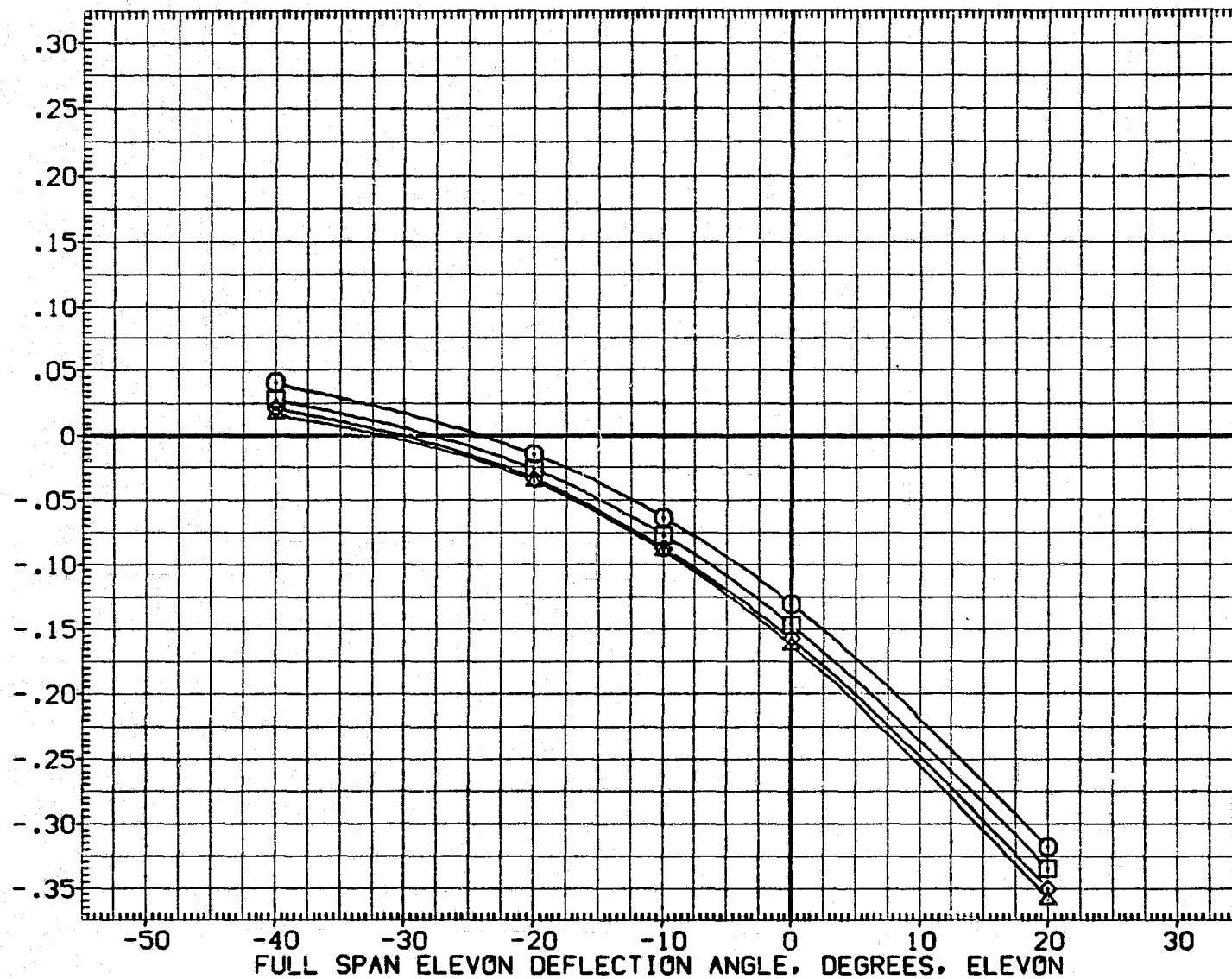


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

-2.000

MACH

BDFLAP

PARAMETRIC VALUES

2.000

BETA

.000

RUDDER

.000 DATASET

.000 ATV029

ATV025

ATV020

DATA SOURCE

ELV-L0

-40.000

-10.000

20.000

DATASET

ATV027

ATV005

ELV-L0

-20.000

.000

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8100

BREF 936.6800

XMRP 1076.6800

YMRP .0000

ZMRP 375.0000

SCALE .0150

SQ.FT.

IN.

IN.X0

IN.Y0

IN.Z0

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

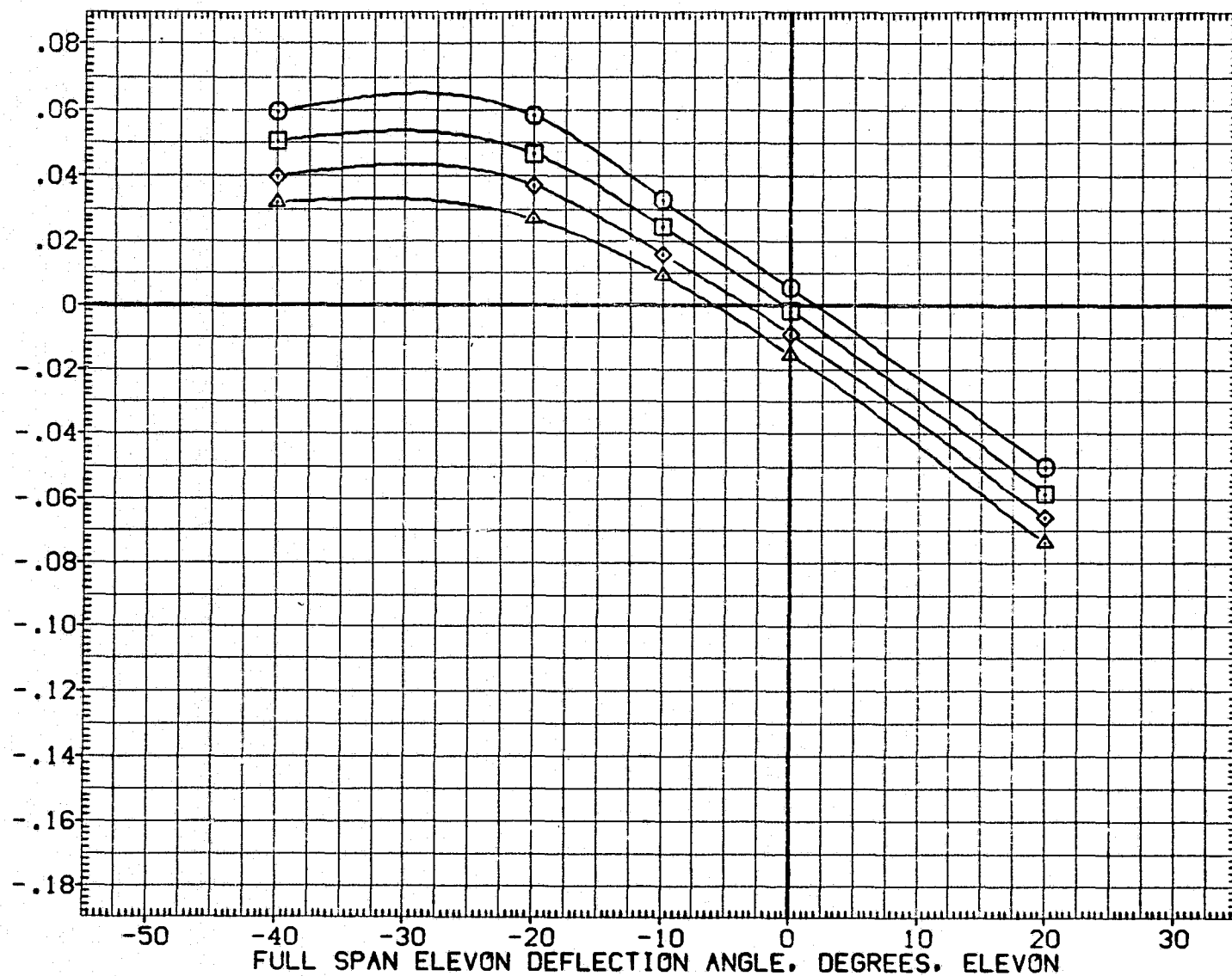


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

6.000 MACH
8.000 BDFLAP
10.000
12.000

PARAMETRIC VALUES

2.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

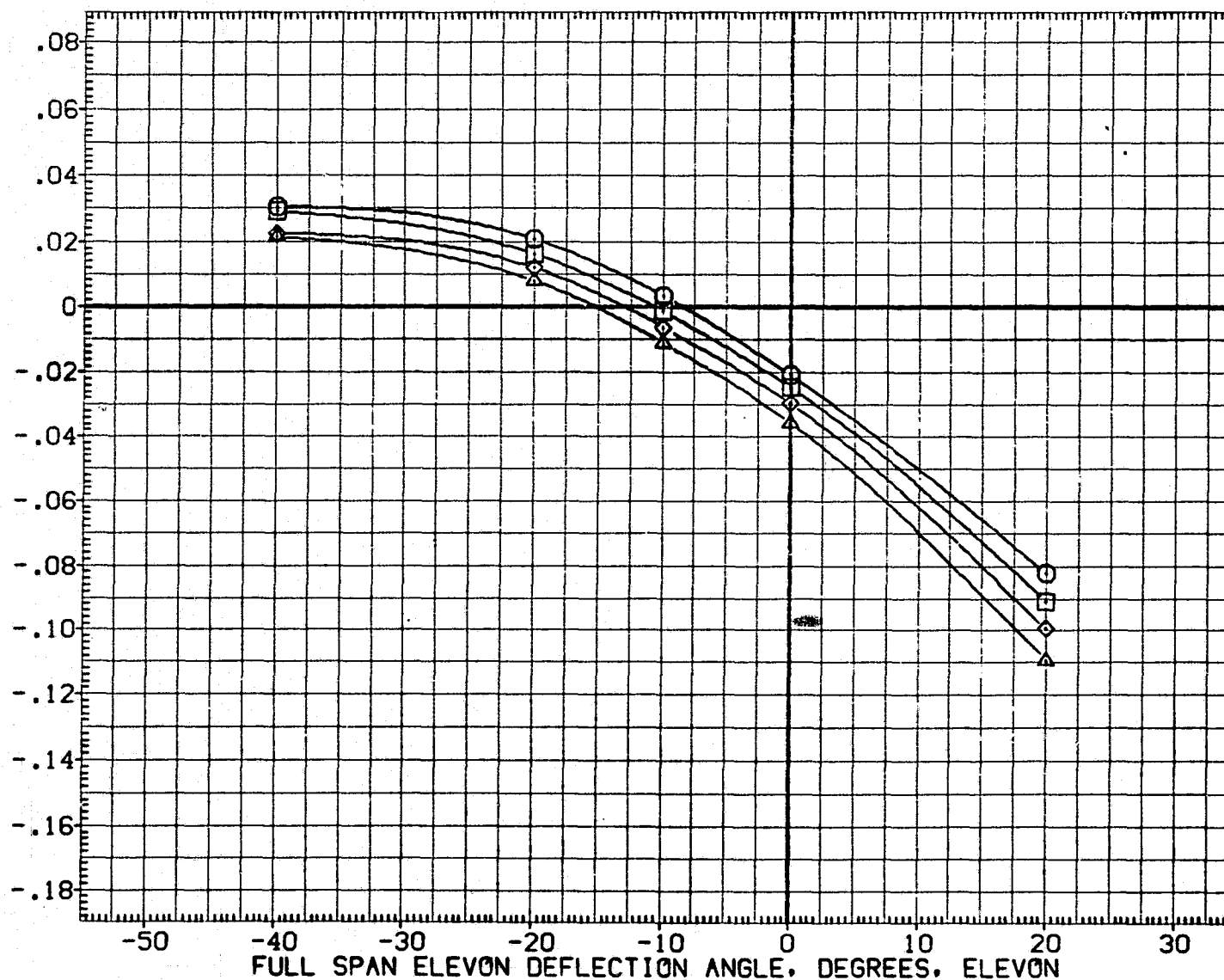


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

14.000

MACH
BOFLAP

PARAMETRIC VALUES

2.000

BETA

RUDDER

.000 DATASET

ATV029

ATV025

ATV020

DATA SOURCE

ELV-L0

-40.000

-10.000

20.000

DATASET

ATV027

ATV005

ELV-L0

-20.000

.000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

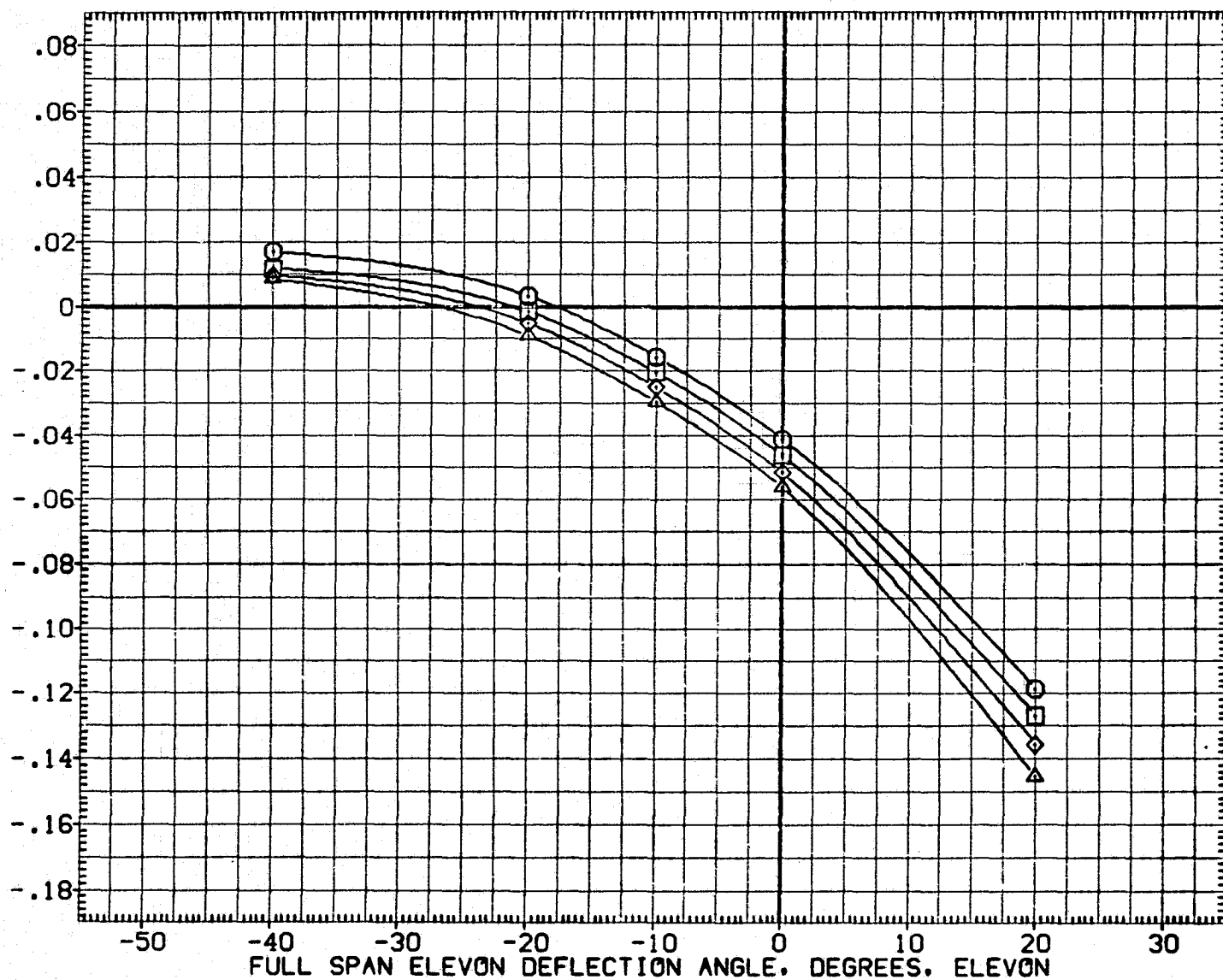


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

22.000
24.000
26.000
27.000

MACH
BOFLAP

PARAMETRIC VALUES

2.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

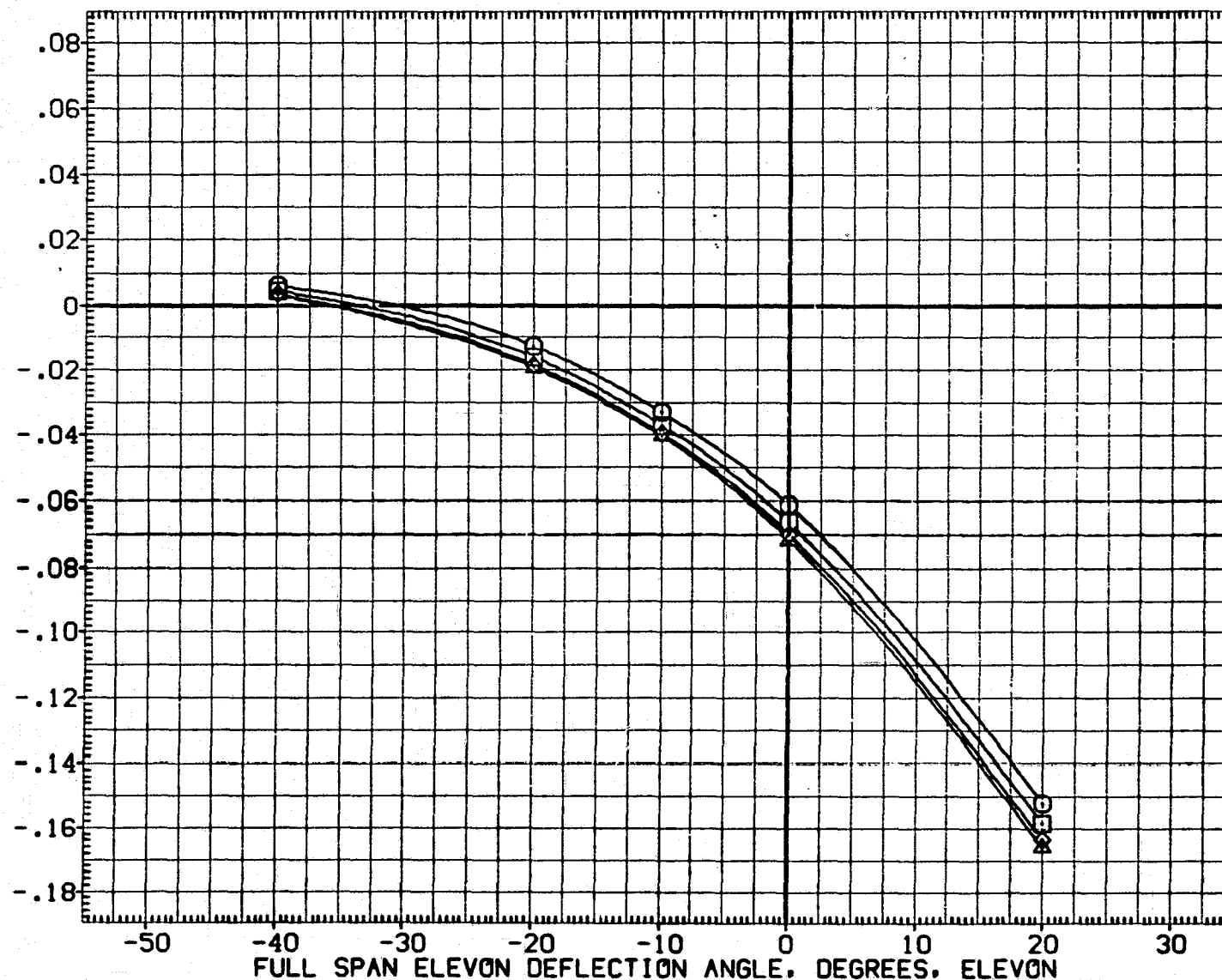


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

-2.000
.000
2.000
4.000

MACH
BOFLAP

PARAMETRIC VALUES

2.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

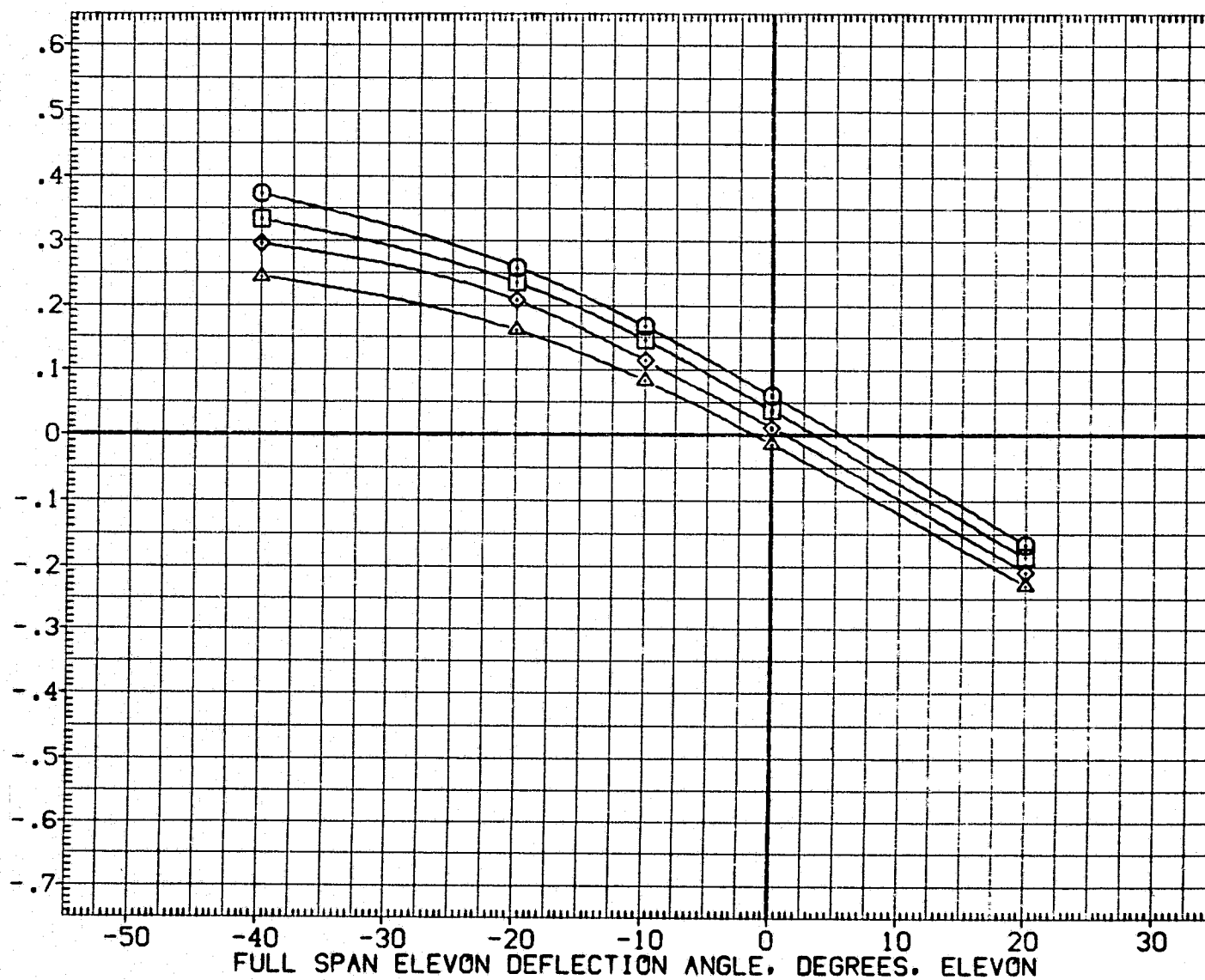


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

6.000
8.000
10.000
12.000

MACH
BDFLAP

PARAMETRIC VALUES

2.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

SREF
LREF
BREF
XMRP
YMRP
ZMRP
SCALE

REFERENCE INFORMATION

2690.0000 SQ.FT.
474.8100 IN.
936.6800 IN.
1076.6800 IN.X0
.0000 IN.Y0
375.0000 IN.Z0
.0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHE1 + CHE0)

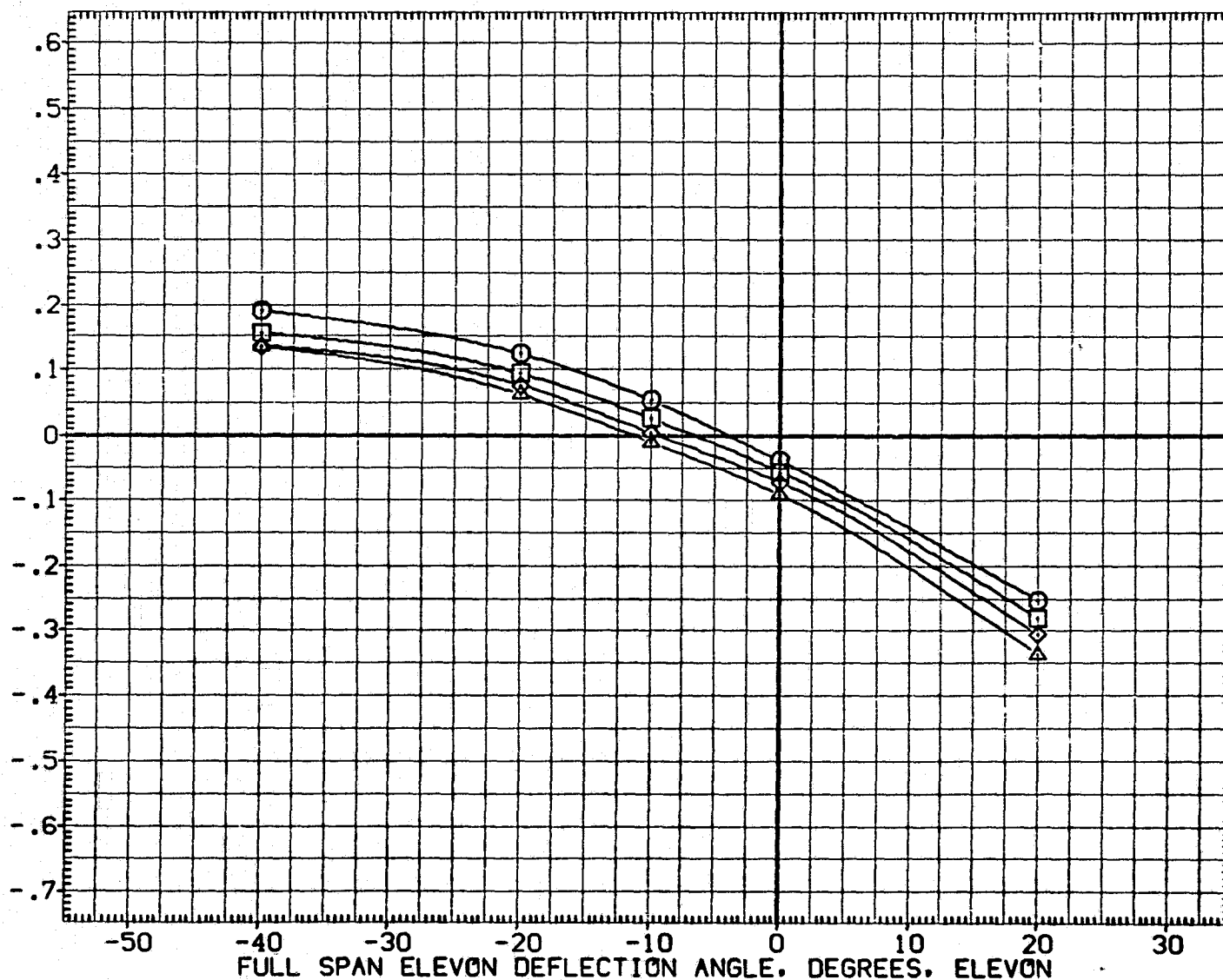


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

14.000

MACH

PARAMETRIC VALUES

2.000

BETA

.000

DATASET

DATA SOURCE

ELV-L0

DATASET

ELV-L0

SREF

REFERENCE INFORMATION

2690.0000

50.FT.

16.000

BDFLAP

.000

RUDDER

.000

ATV029

-40.000

ATV027

-20.000

LREF

474.8100

IN.

18.000

ATV025

-10.000

ATV005

.000

BREF

936.6800

IN.

20.000

ATV020

20.000

XMRP

1076.6800

IN.X3

YMRP

.0000

IN.Y3

ZMRP

375.0000

IN.Z3

SCALE

.0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT. CHET (CHEI + CHEO)

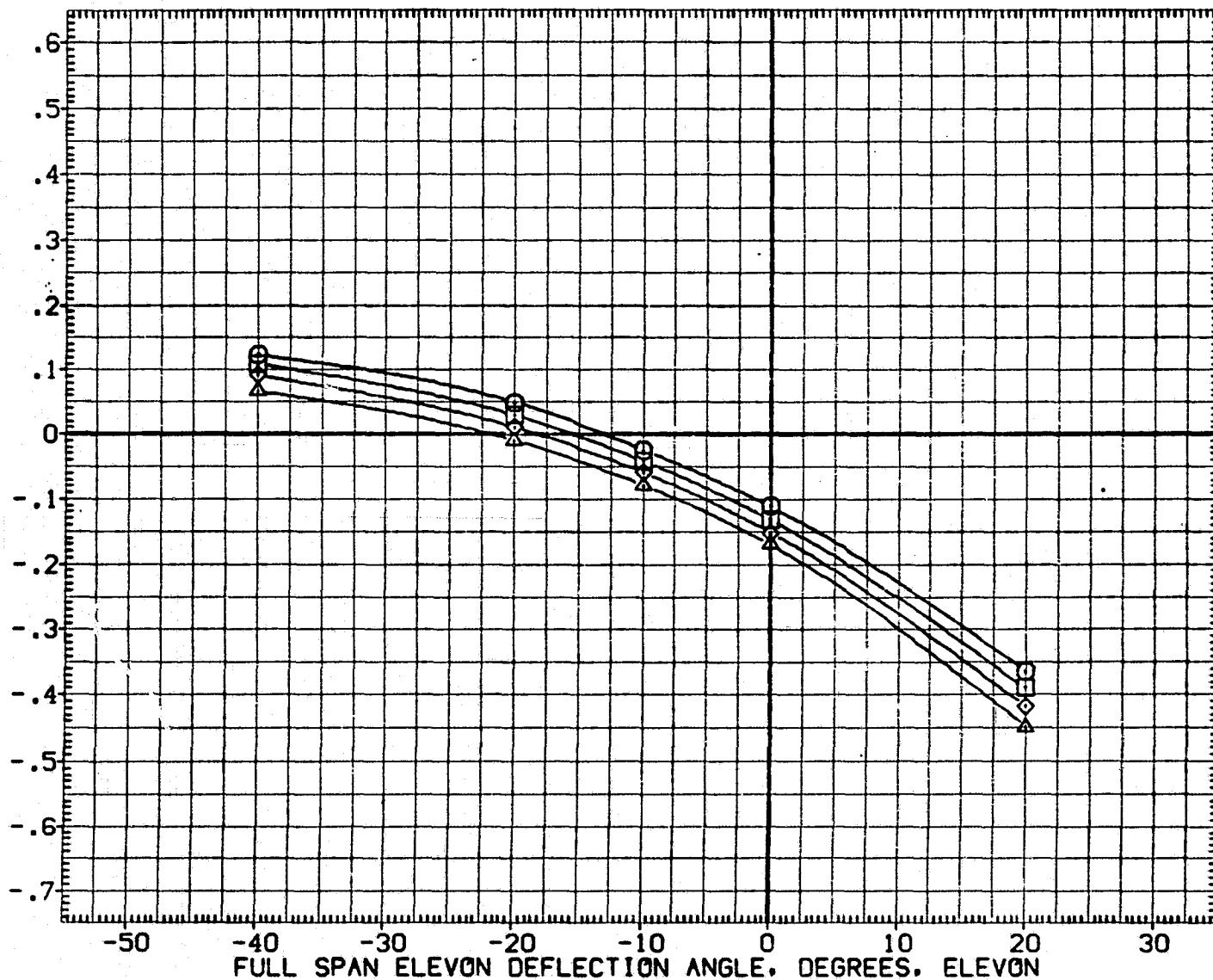


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

22.000
24.000
26.000
27.000

MACH
BOFLAP

PARAMETRIC VALUES

2.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHE1 + CHE0)

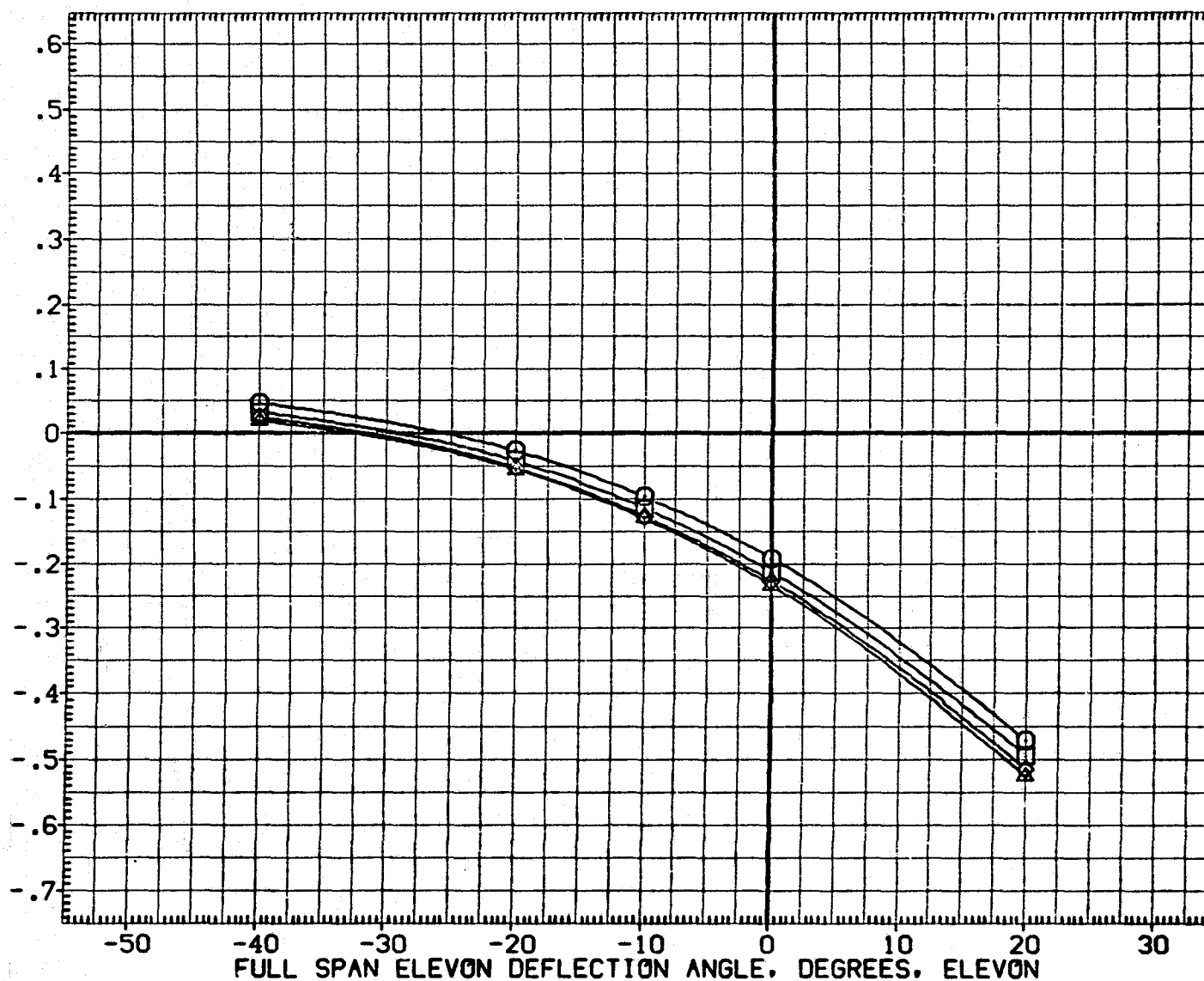


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	ELV-L0	DATA SOURCE	ELV-L0	SREF	2690.0000	SQ.FT.
○	-2.000		4.000	BETA	.000	ATV029	-40.000	ATV027	-20.000	474.8100	IN.
□	.000	BDFLAP	.000	RUDDER	.000	ATV025	-10.000	ATV005	.000	936.6800	IN.
◇	2.000					ATV020	20.000			1076.6800	IN.X0
△	4.000									YMRP .0000	IN.Y0
										ZMRP - 375.0000	IN.Z0
										SCALE .0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

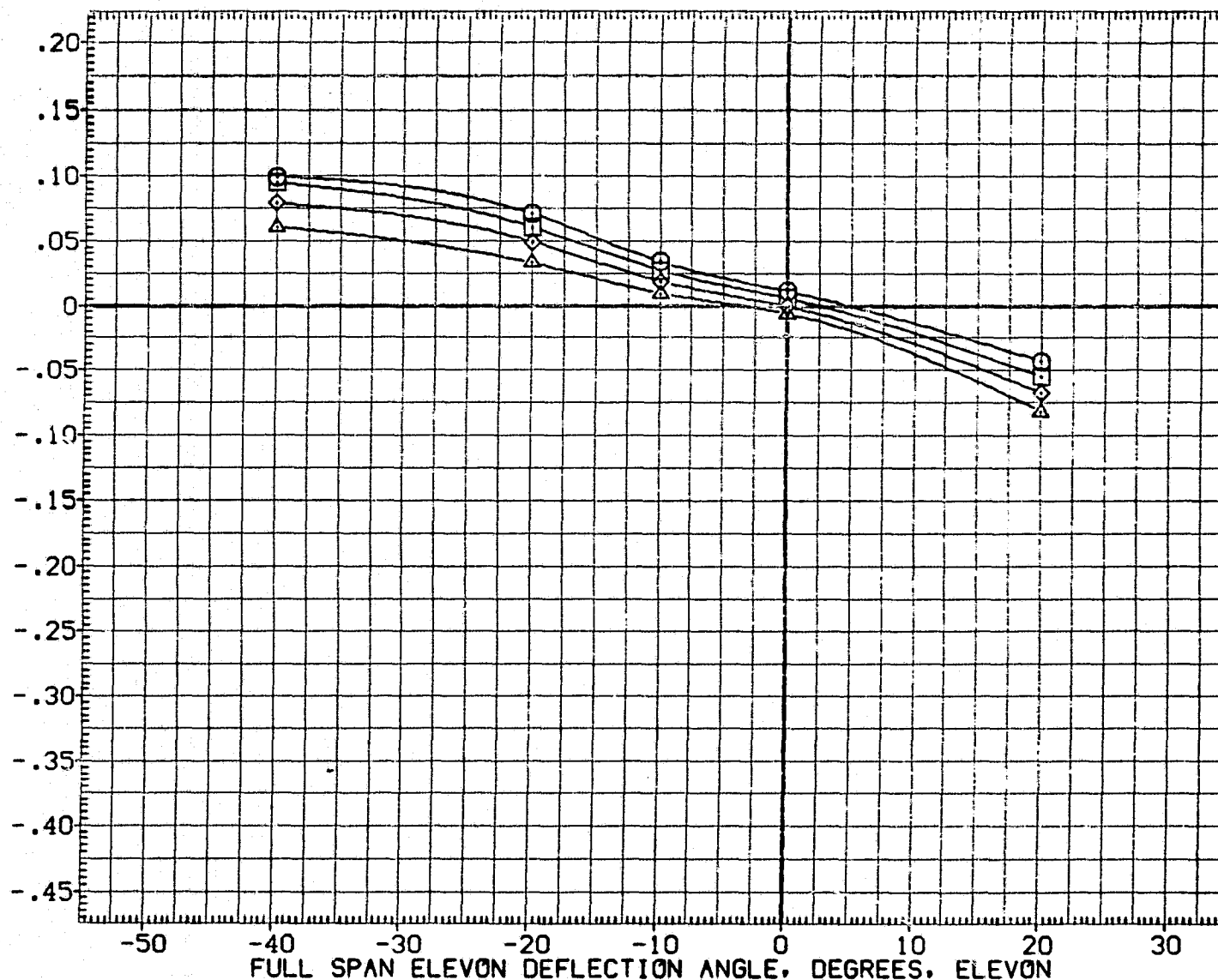


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	50.FT.
○	6.000											
□	8.000	BOFLAP	4.000	RUDDER	.000	ATV029	-40.000	ATV027	-20.000	LREF	474.8100	IN.
◇	10.000		.000			ATV025	-10.000	ATV005	.000	BREF	936.6800	IN.
△	12.000					ATV020	20.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

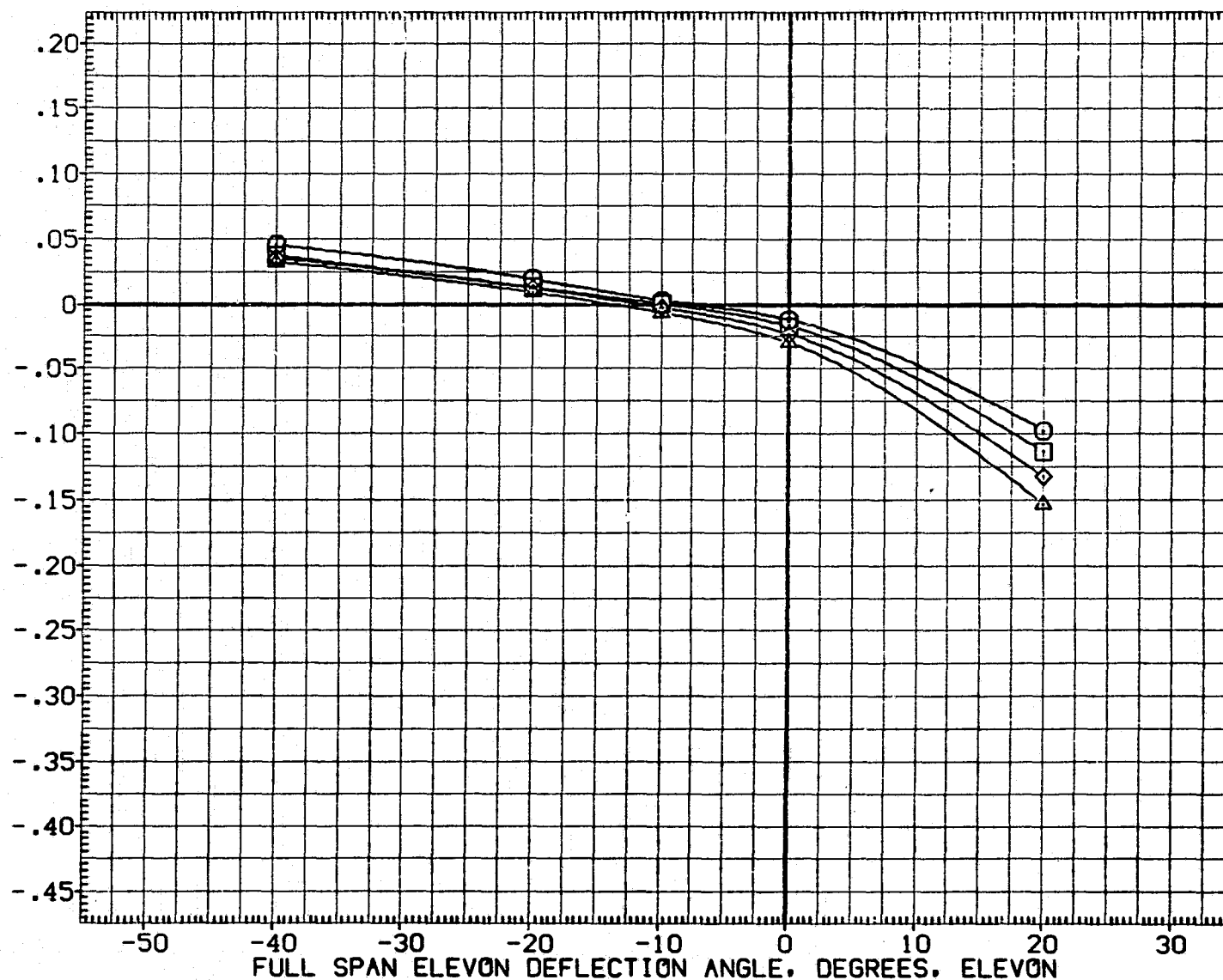


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	50.FT.
○	14.000											
□	16.000	BDFLAP		RUDDER	.000	ATV029	-40.000	ATV027	-20.000	LREF	474.8100	IN.
◇	18.000					ATV025	-10.000	ATV005	.000	BREF	936.6800	IN.
△	20.000					ATV020	20.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

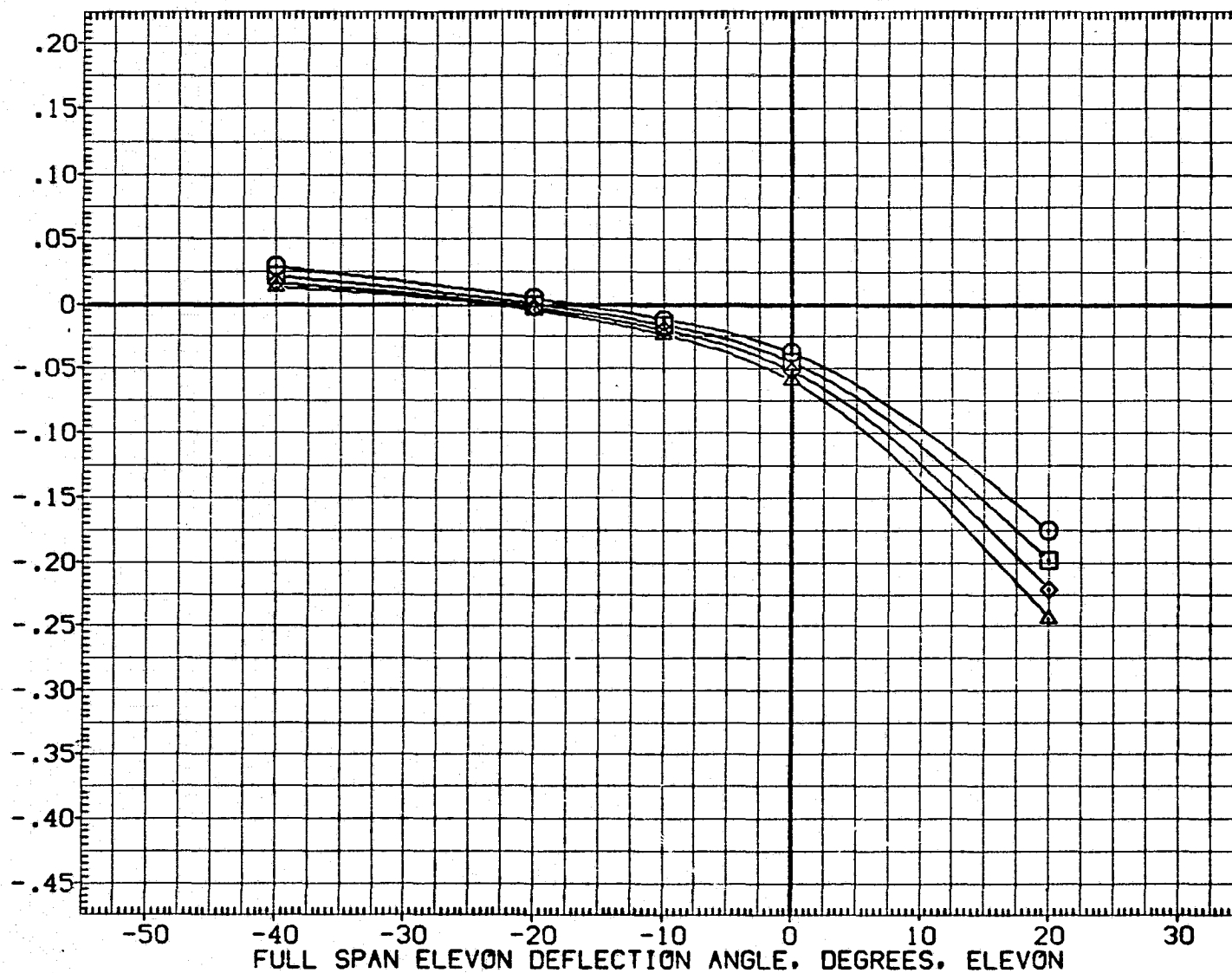


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

22.000

MACH

BDFLAP

PARAMETRIC VALUES

4.000

BETA

.000

RUDDER

.000 DATASET

.000 ATV029

ATV025

ATV020

DATA SOURCE

ELV-L0

-40.000

-10.000

20.000

DATASET

ATV027

ATV005

ELV-L0

-20.000

.000

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

REFERENCE INFORMATION

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

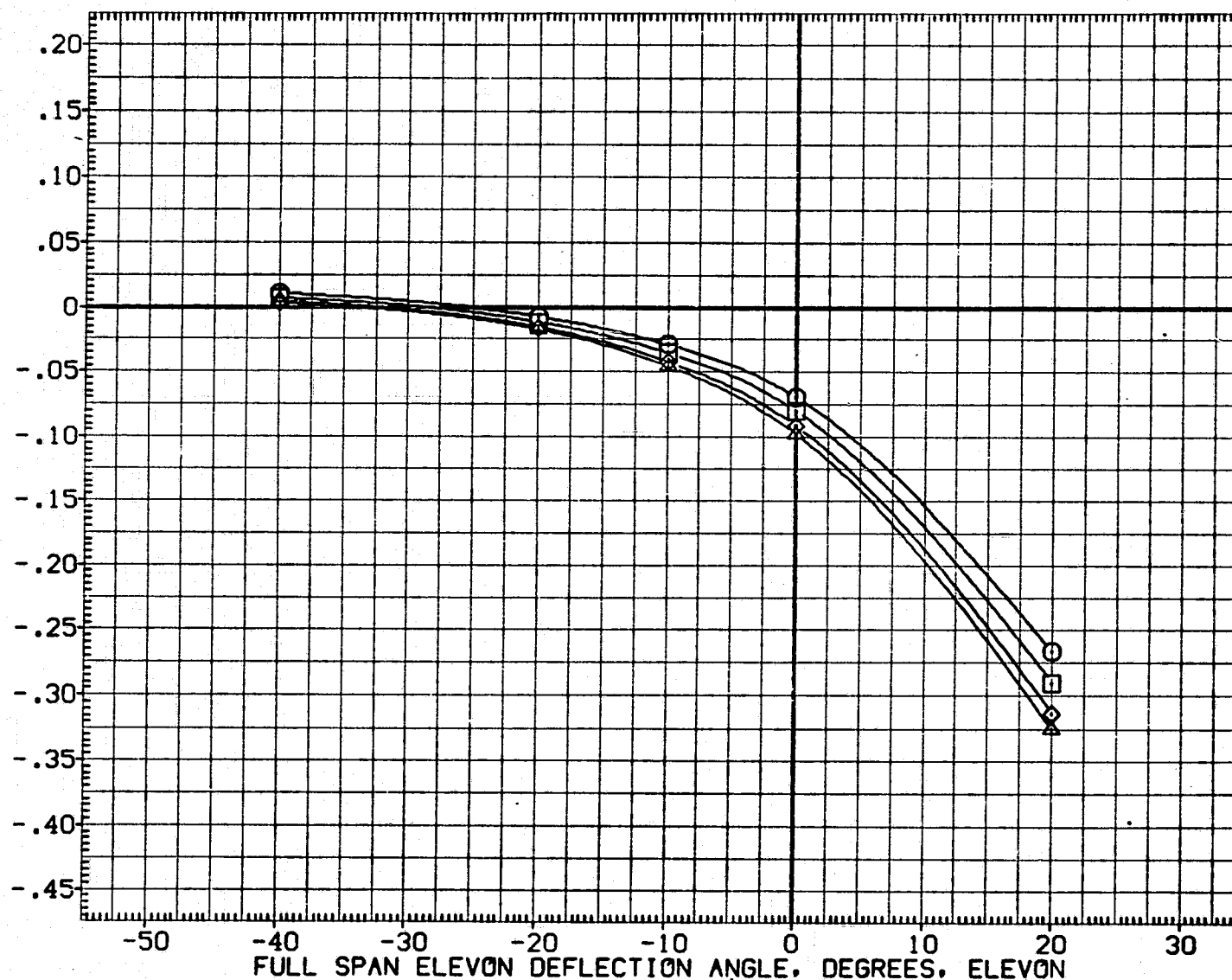


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

-2.000

MACH
BOFLAP

PARAMETRIC VALUES

4.000

BETA

RUDDER

.000

DATASET

DATA SOURCE

ELV-L0

DATASET

ELV-L0

SREF

REFERENCE INFORMATION

2690.0000

SQ.FT.

LREF

474.8100

IN.

BREF

936.6800

IN.

XMRP

1076.6800

IN.X0

YMRP

.0000

IN.Y0

ZMRP

375.0000

IN.Z0

SCALE

.0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

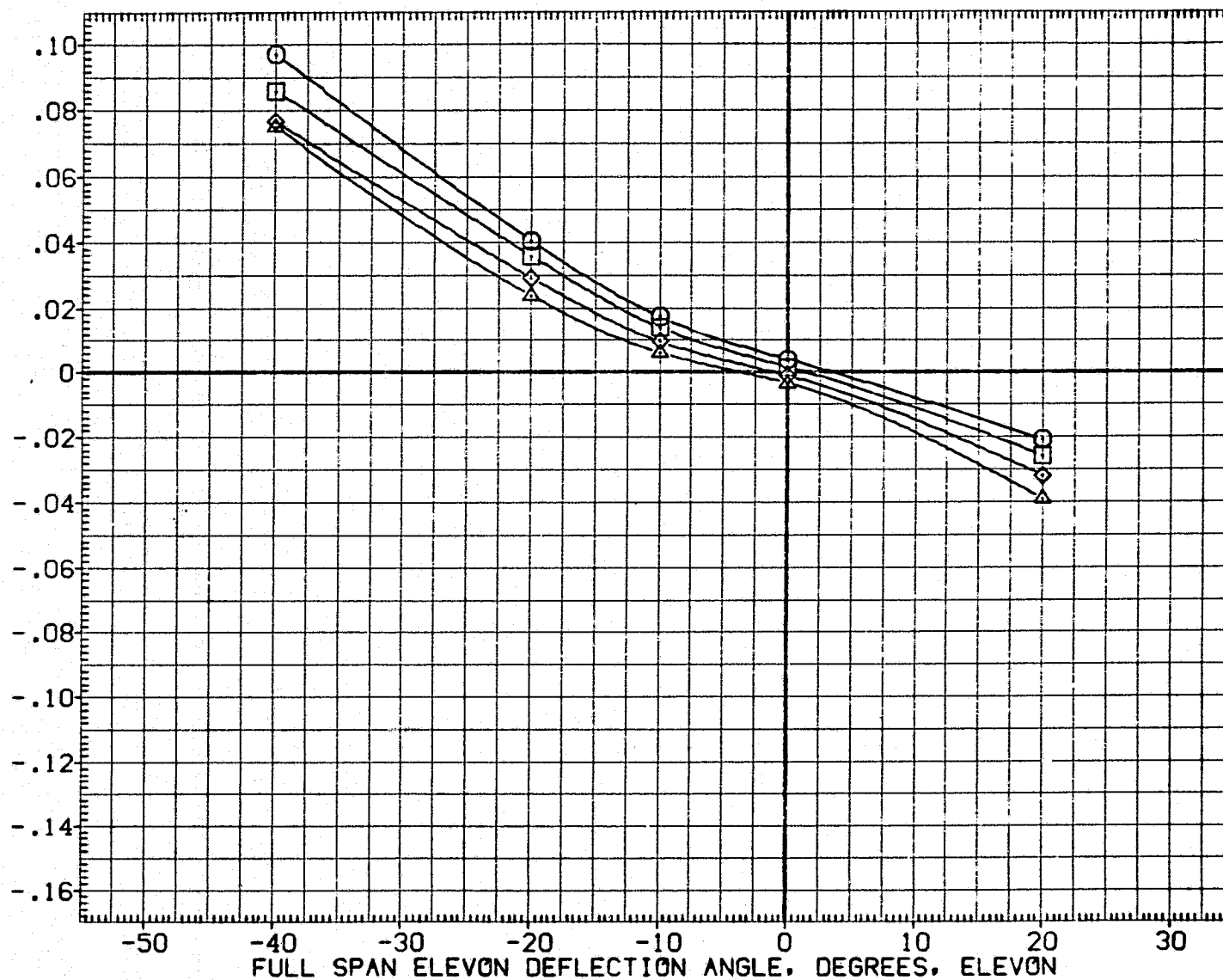


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

6.000

MACH
BDFLAP

PARAMETRIC VALUES

4.000

BETA

.000

RUDDER

.000 DATASET

ATV029

ATV025

ATV020

DATA SOURCE

ELV-L0

-40.000

-10.000

20.000

DATASET

ATV027

ATV005

ELV-L0

-20.000

.000

REFERENCE INFORMATION

SREF

2690.0000

SQ.FT.

LREF

474.8100

IN.

BREF

936.6800

IN.

XMRP

1076.6800

IN.X0

YMRP

.0000

IN.Y0

ZMRP

375.0000

IN.Z0

SCALE

.0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

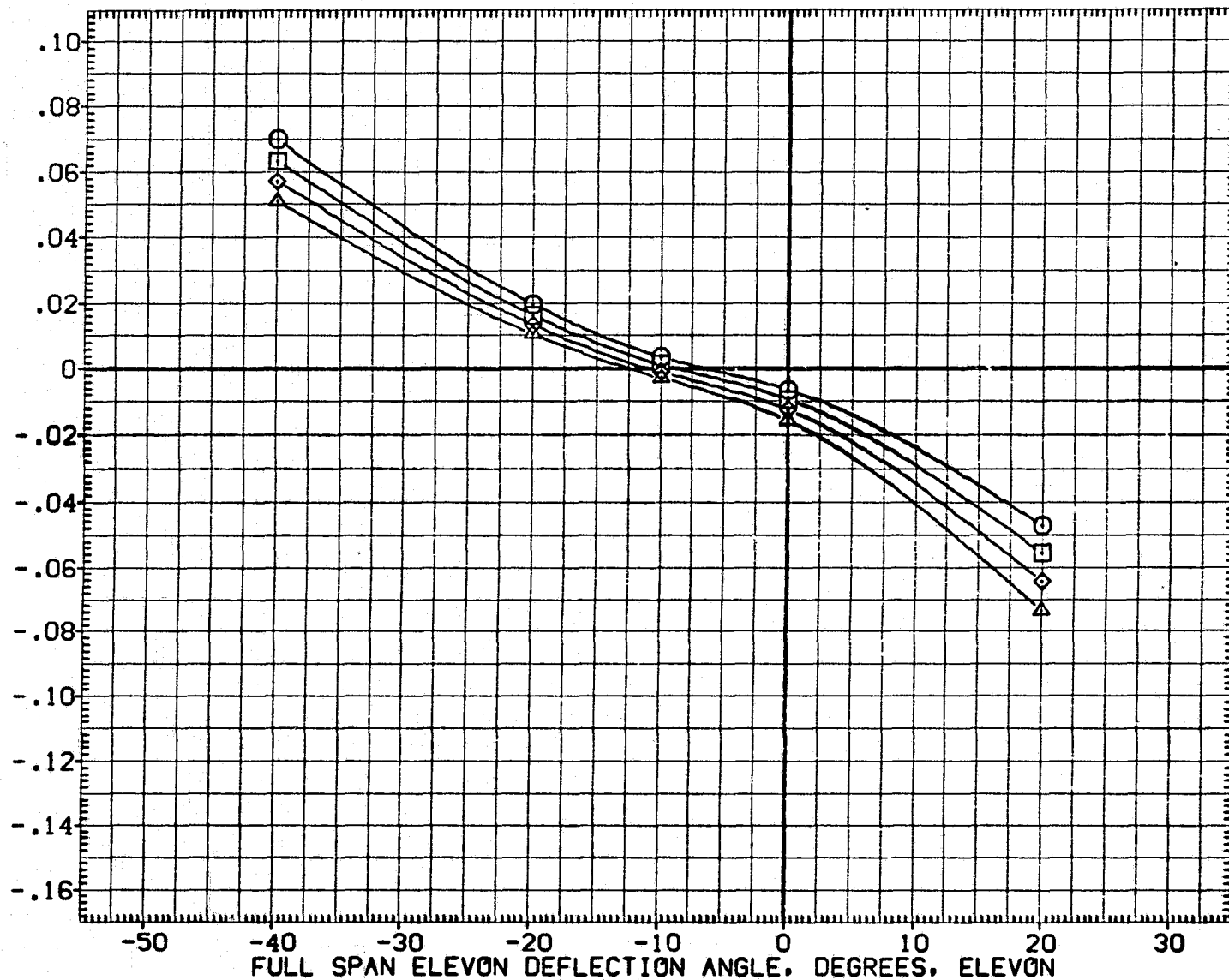


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	14.000		4.000 BETA	.000 DATASET ELV-L0	SREF 2690.0000 SQ.FT.
□	16.000	BDFLAP	.000 RUDDER	.000 ATV029 -40.000	LREF 474.8100 IN.
◇	18.000			.000 ATV025 -10.000	SREF 936.6800 IN.
△	20.000			.000 ATV020 20.000	XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

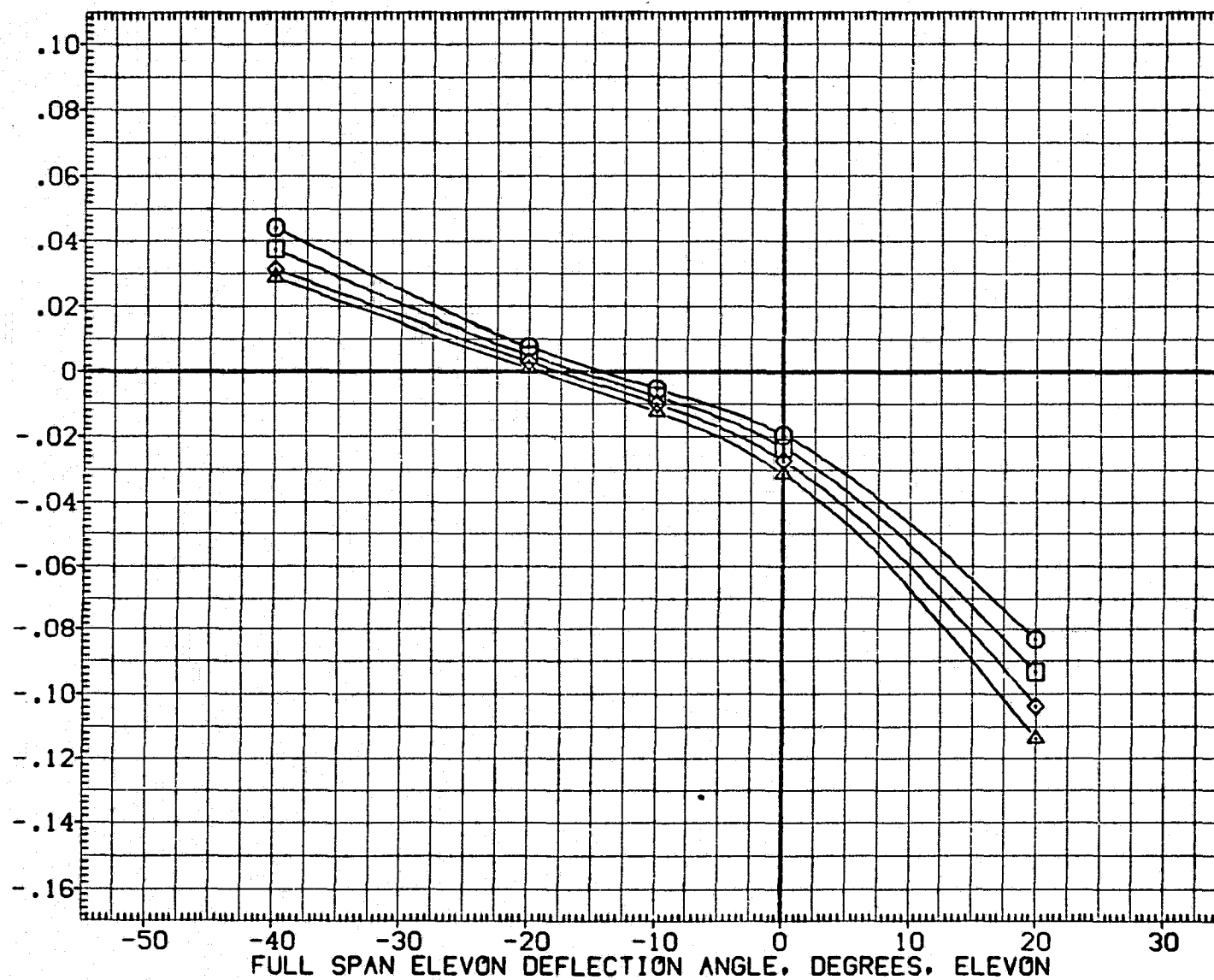


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

22.000

MACH

BDFLAP

PARAMETRIC VALUES

4.000

BETA

RUDDER

.000

DATASET

ATV029

ATV025

ATV020

DATA SOURCE

ELV-L0

-40.000

-10.000

20.000

DATASET

ATV027

ATV005

ELV-L0

-20.000

.000

REFERENCE INFORMATION

SREF

2690.0000

LREF

474.8100

BREF

936.6800

XMRP

1076.6800

YMRP

.0000

ZMRP

375.0000

SCALE

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

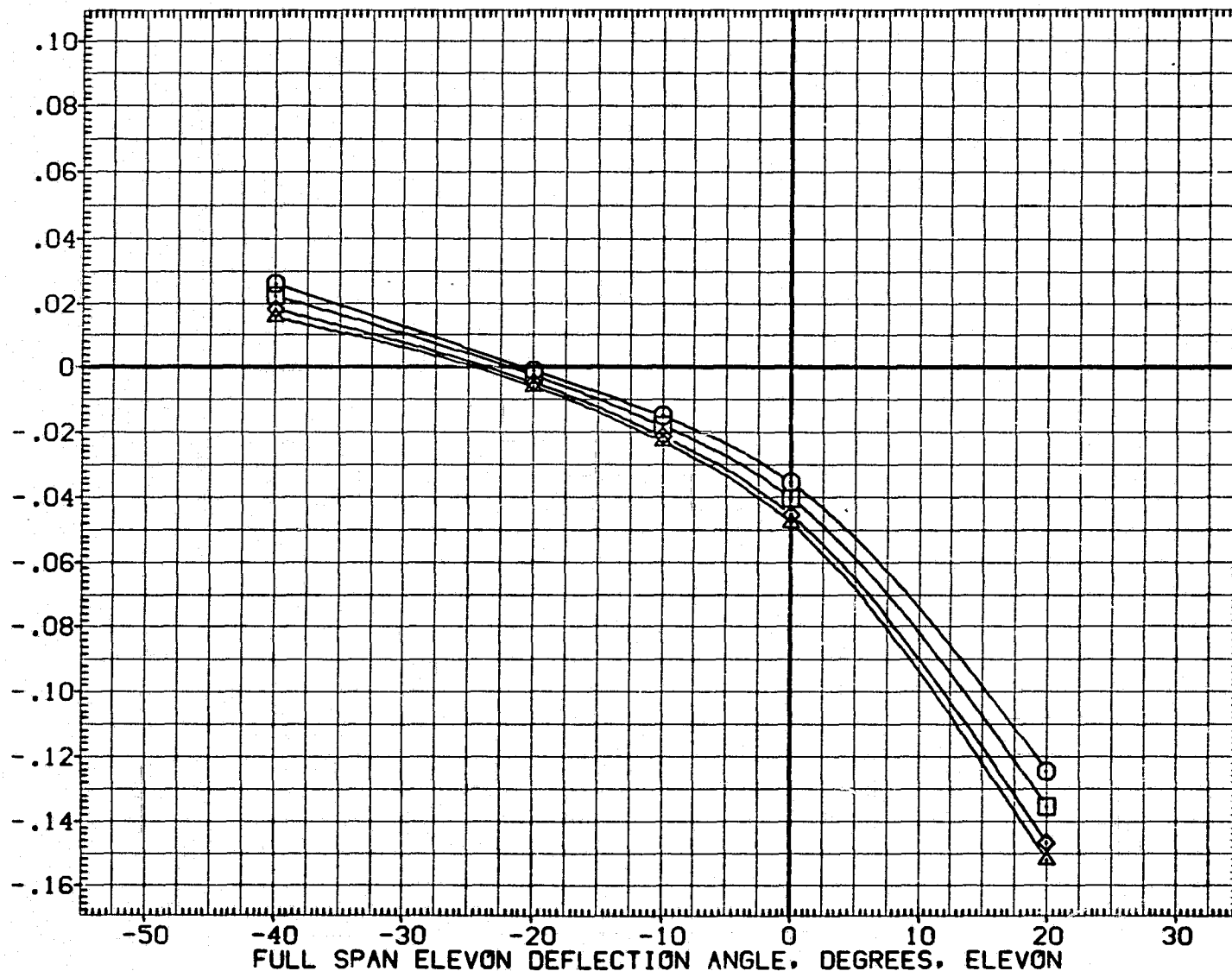


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

-2.000
.000
2.000
4.000

MACH
BOFLAP

PARAMETRIC VALUES

4.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

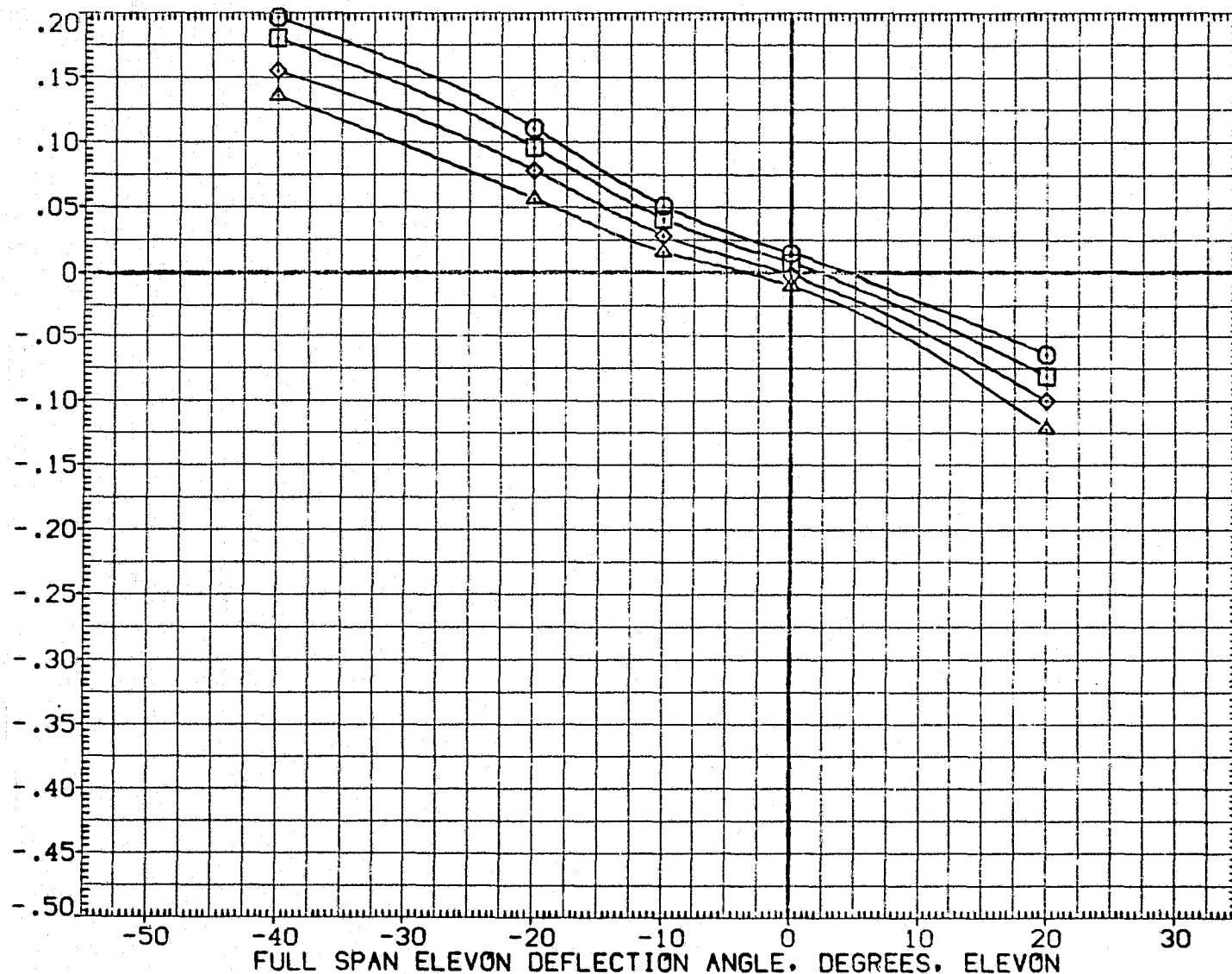


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
◇
□
△

ALPHA

6.000
8.000
10.000
12.000

MACH
BOFLAP

PARAMETRIC VALUES

4.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

SREF
LREF
BREF
XMRP
YMRP
ZMRP
SCALE

REFERENCE INFORMATION

2690.0000 SQ.FT.
474.9100 IN.
936.6800 IN.
1076.6800 IN.X0
.0000 IN.Y0
375.0000 IN.Z0
.0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

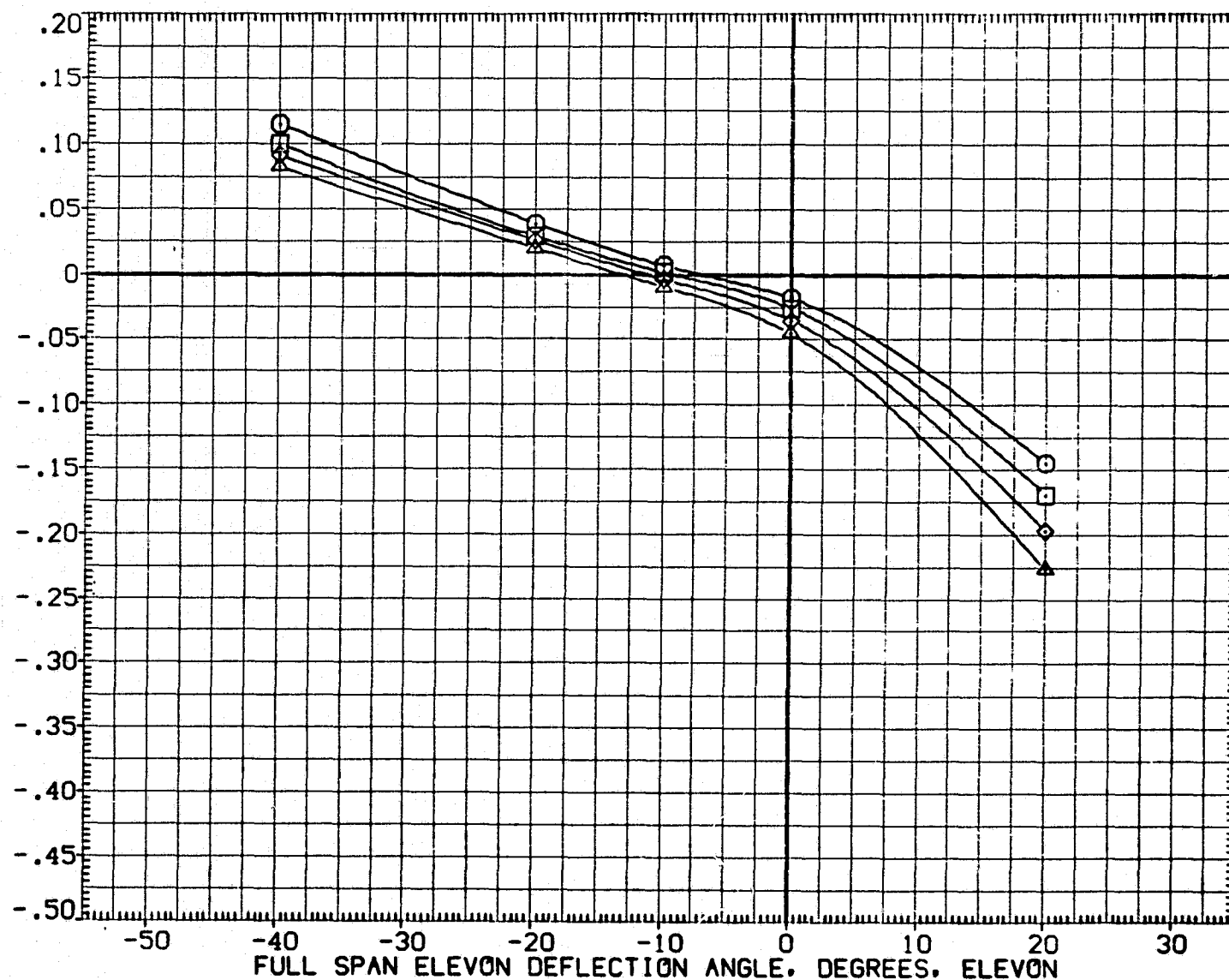


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

14.000
16.000
18.000
20.000

MACH
BOFLAP

PARAMETRIC VALUES

4.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

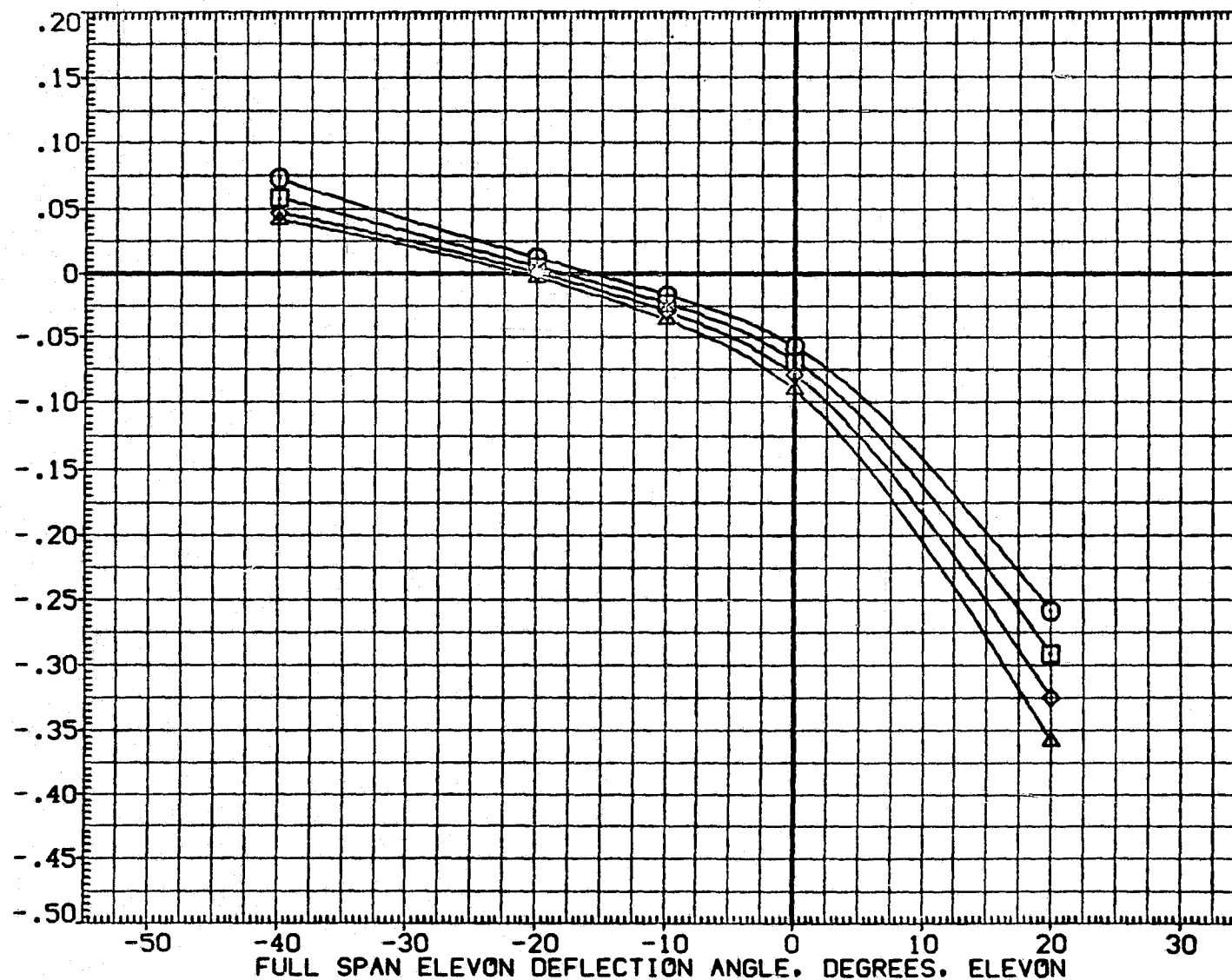


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

22.000
24.000
26.000
27.000MACH
BOFLAP

PARAMETRIC VALUES

4.000 BETA
.000 RUDDER.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000DATASET
ATV027
ATV005ELV-L0
-20.000
.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHE1 + CHE0)

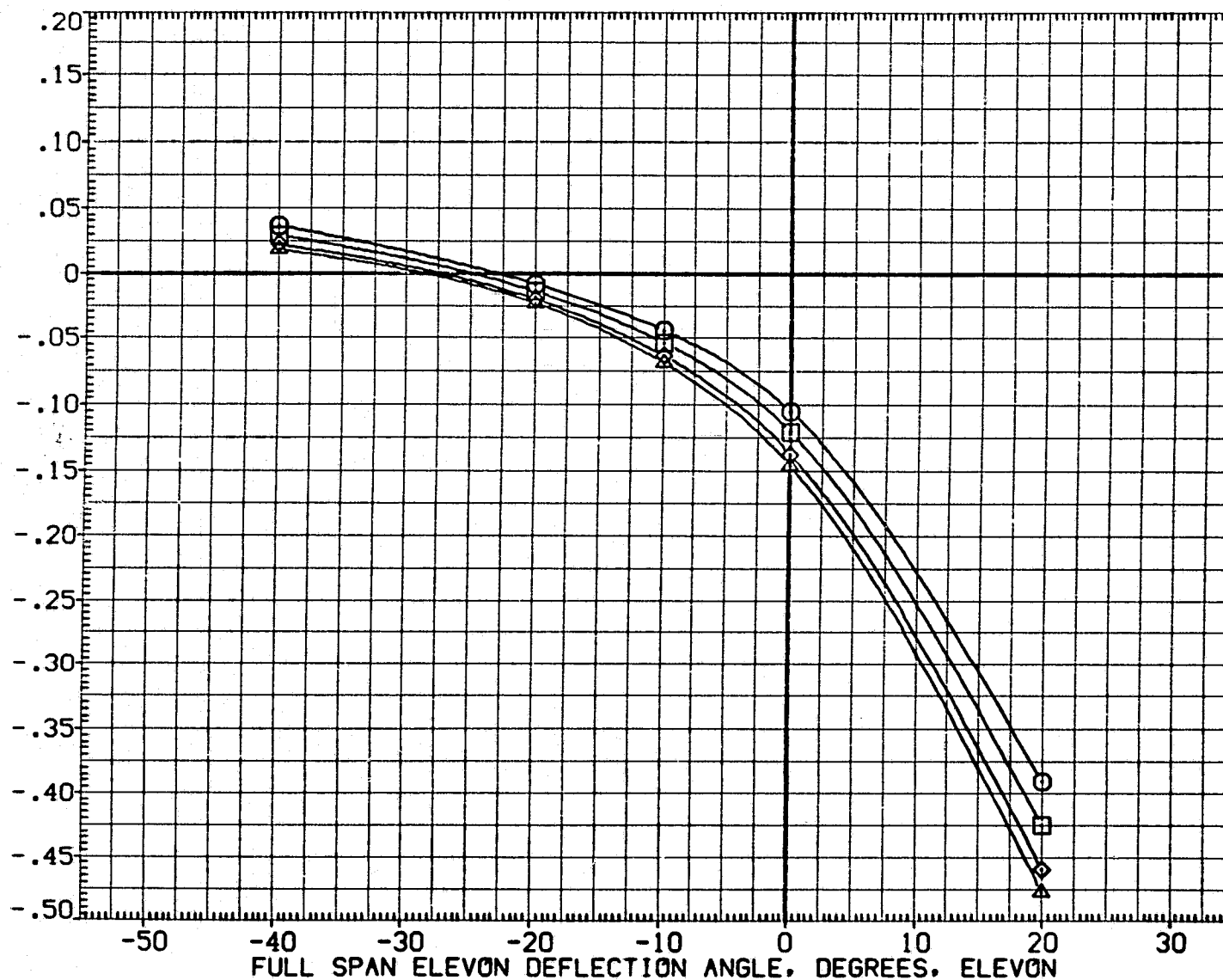


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

-2.000

MACH

BDFLAP

PARAMETRIC VALUES

5.000

BETA

RUDDER

.000 DATASET

.000 ATV029

ATV025

ATV020

DATA SOURCE

ELV-L0

-40.000

-10.000

20.000

DATASET

ATV027

ATV005

ELV-L0

-20.000

.000

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8100

BREF 936.6800

XMRP 1076.6800

YMRP .0000

ZMRP 375.0000

SCALE .0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

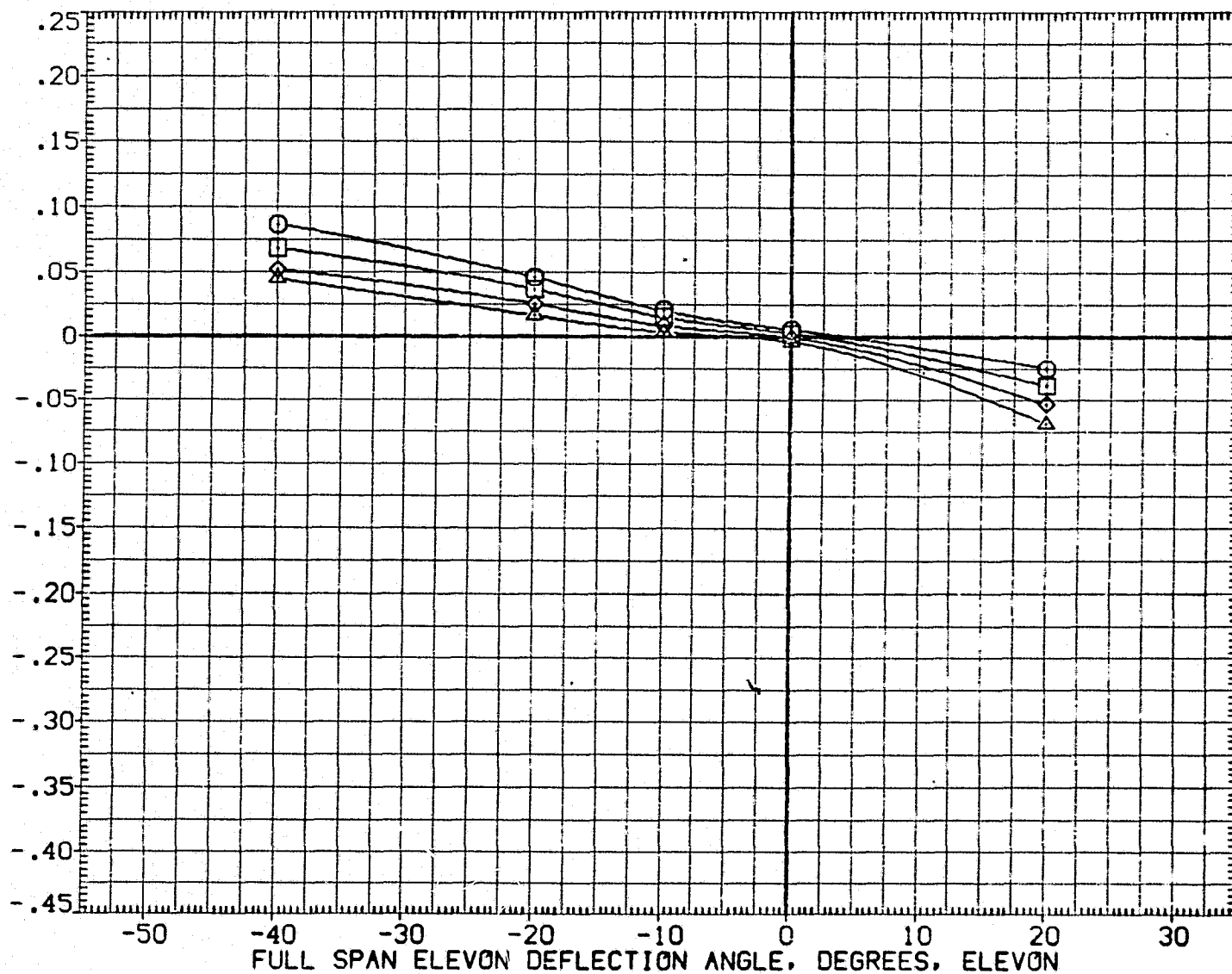


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	50.FT.
○	6.000		5.000		.000	ATV029	-40.000	ATV027	-20.000	LREF	474.8100	IN.
□	8.000	80FLAP	.000	RUDDER	.000	ATV025	-10.000	ATV005	.000	BREF	936.6800	IN.
◇	10.000					ATV020	20.000			XMRP	1076.6800	IN.X0
△	12.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

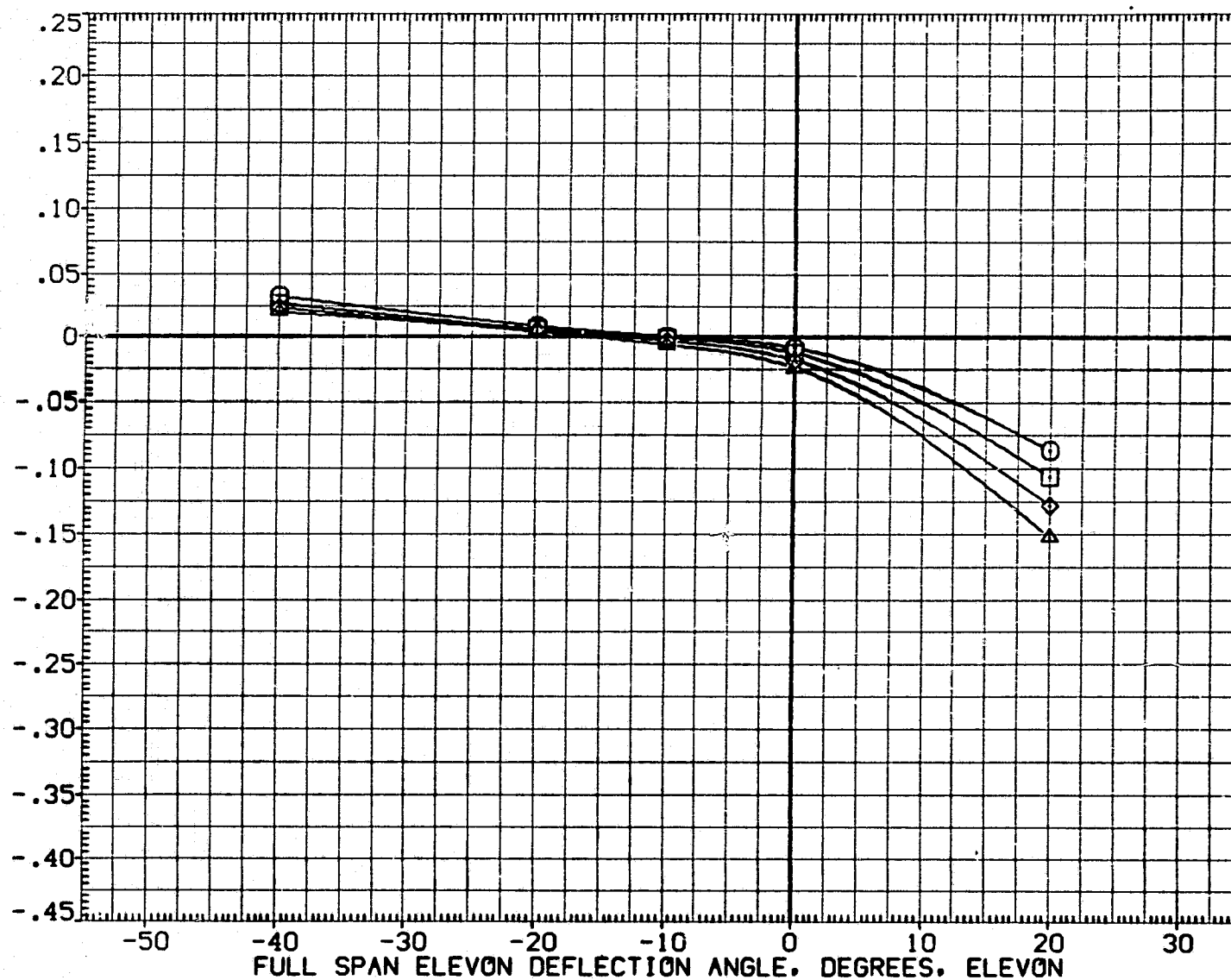


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26-C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

14.000
16.000
18.000
20.000

MACH
BOFLAP

PARAMETRIC VALUES

5.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

SREF
LREF
BREF
XMRP
YMRP
ZMRP
SCALE

REFERENCE INFORMATION

2690.0000 SQ.FT.
474.8100 IN.
936.6800 IN.
1076.6800 IN.X0
.0000 IN.Y0
375.0000 IN.Z0
.0150

INBOARD ELEVON HINGE MOMENT, COEFFICIENT, CHEI

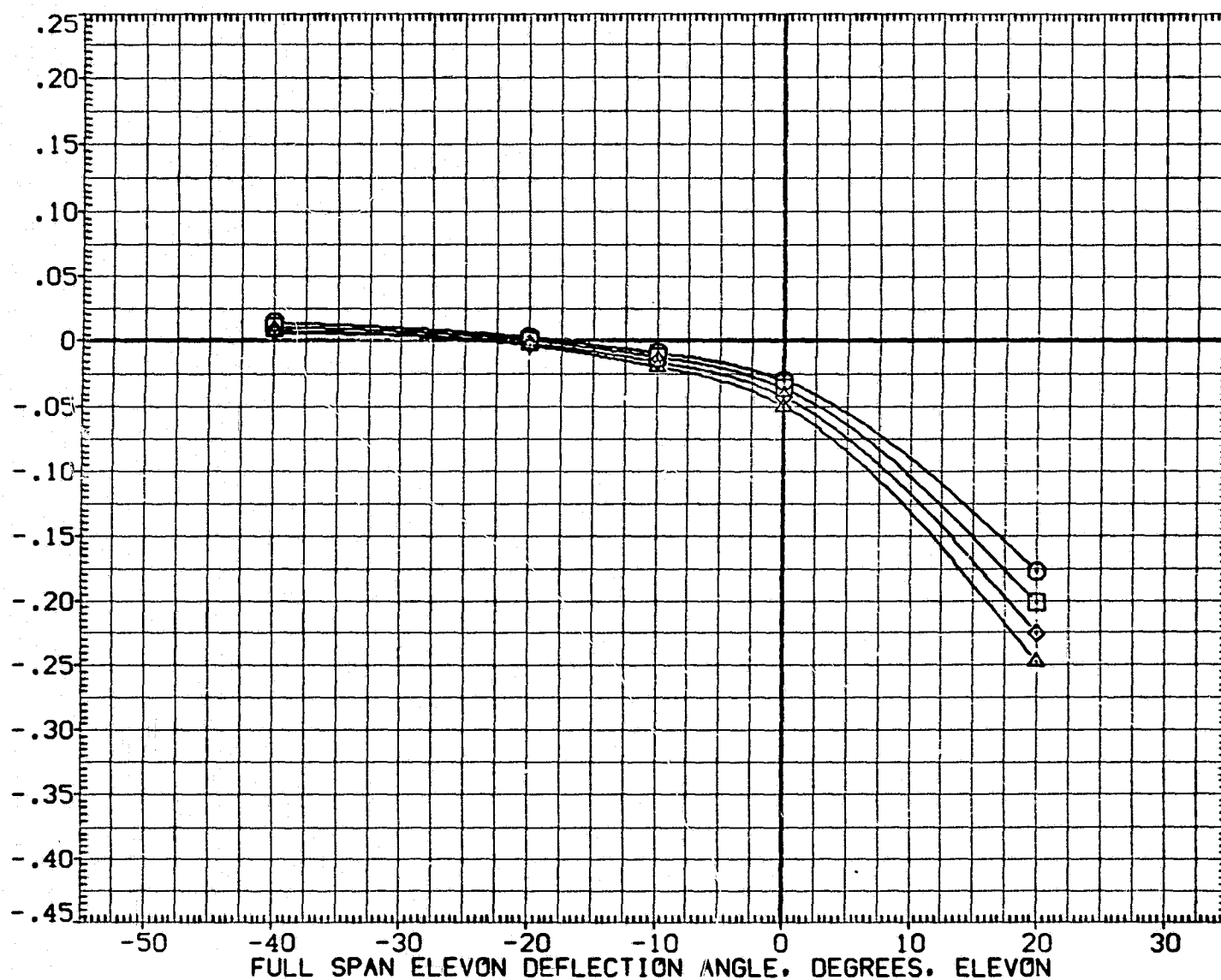


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇

ALPHA

22.000

MACH

BDFLAP

24.000
26.000

PARAMETRIC VALUES

5.000

BETA

.000

RUDDER

.000

DATASET

ATV029

ATV025

ATV020

DATA SOURCE

ELV-L0

-40.000

-10.000

20.000

DATASET

ATV027

ATV005

ELV-L0

-20.000

.000

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

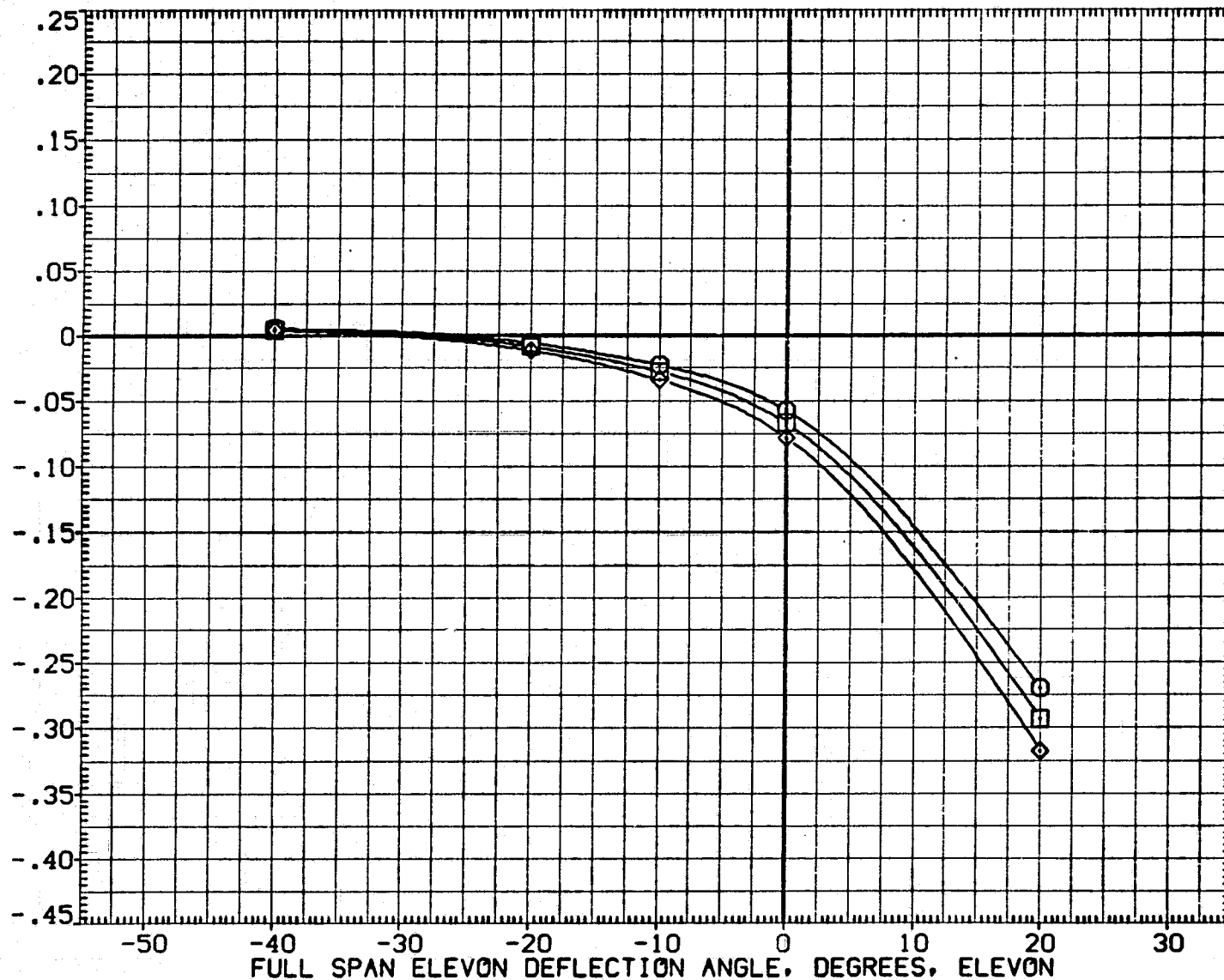


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

-2.000
.000
2.000
4.000

MACH
BOFLAP

PARAMETRIC VALUES

5.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

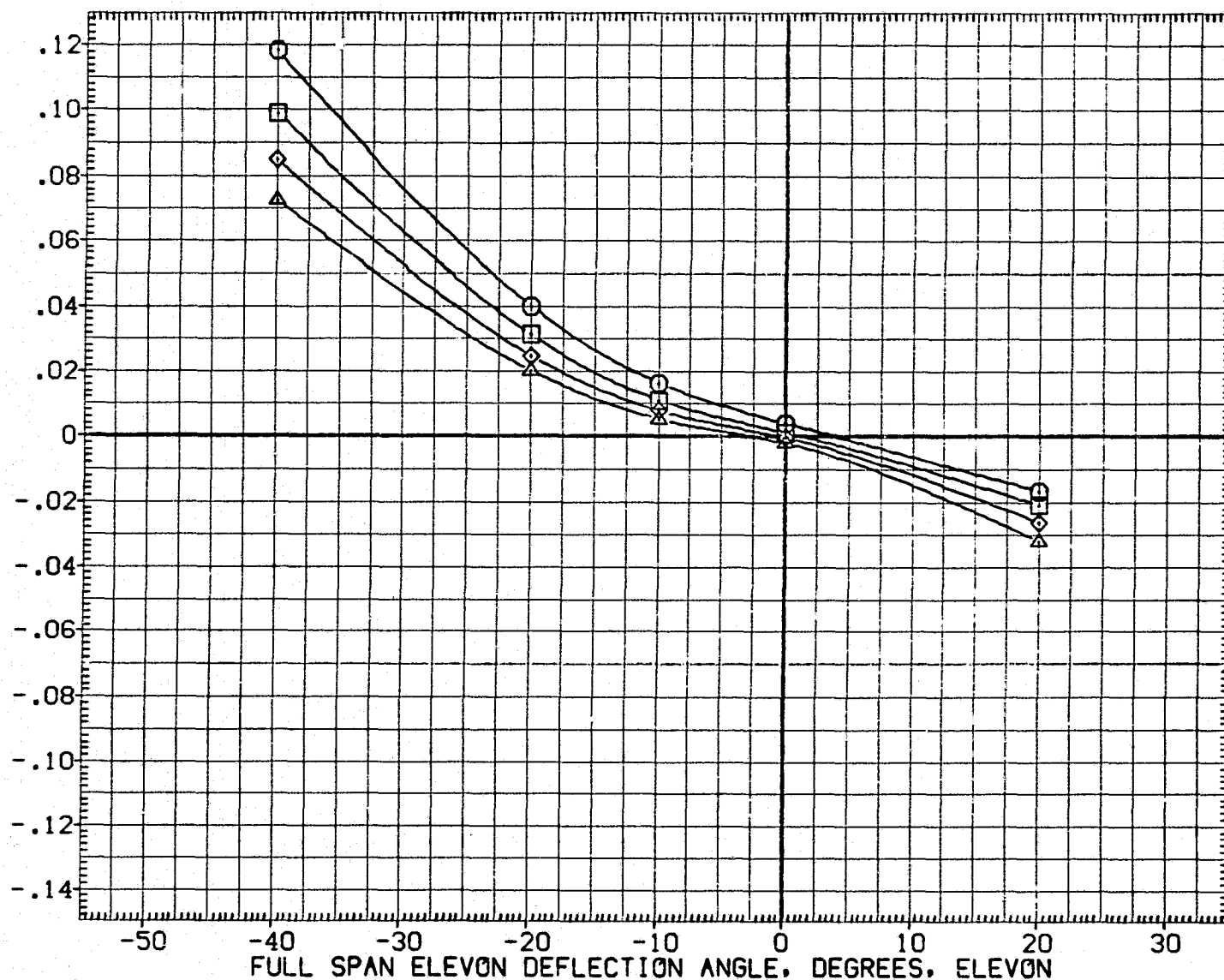


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

6.000
8.000
10.000
12.000

MACH
BDFLAP

PARAMETRIC VALUES

5.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

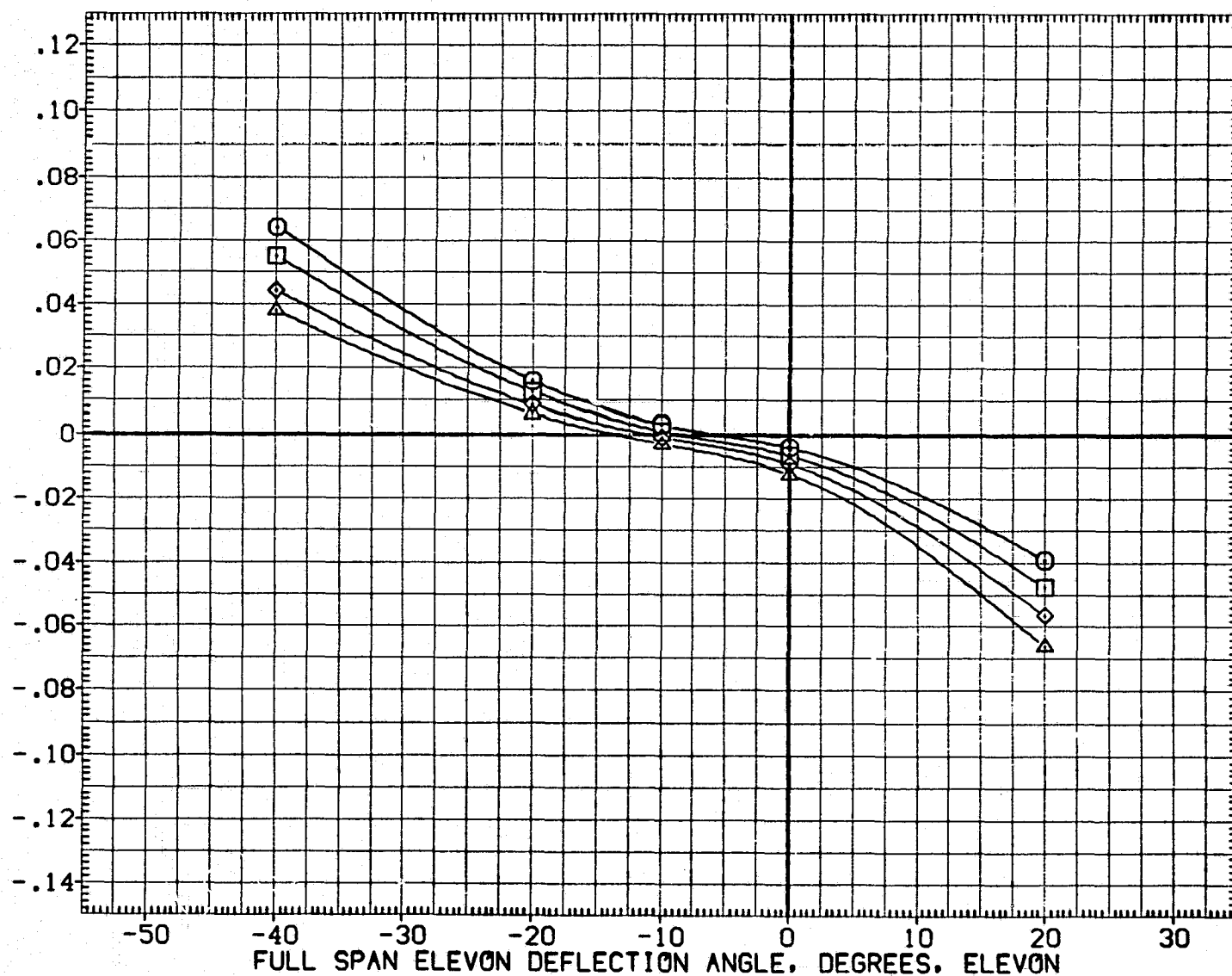


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	SQ.FT.
○	14.000		5.000	BETA	.000	ATV029	-40.000	ATV027	-20.000	LREF	474.8100	IN.
□	16.000	BDFLAP	.000	RUDDER	.000	ATV025	-10.000	ATV005	.000	BREF	936.6800	IN.
◇	18.000					ATV020	20.000			XMRP	1076.6800	IN.X0
△	20.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

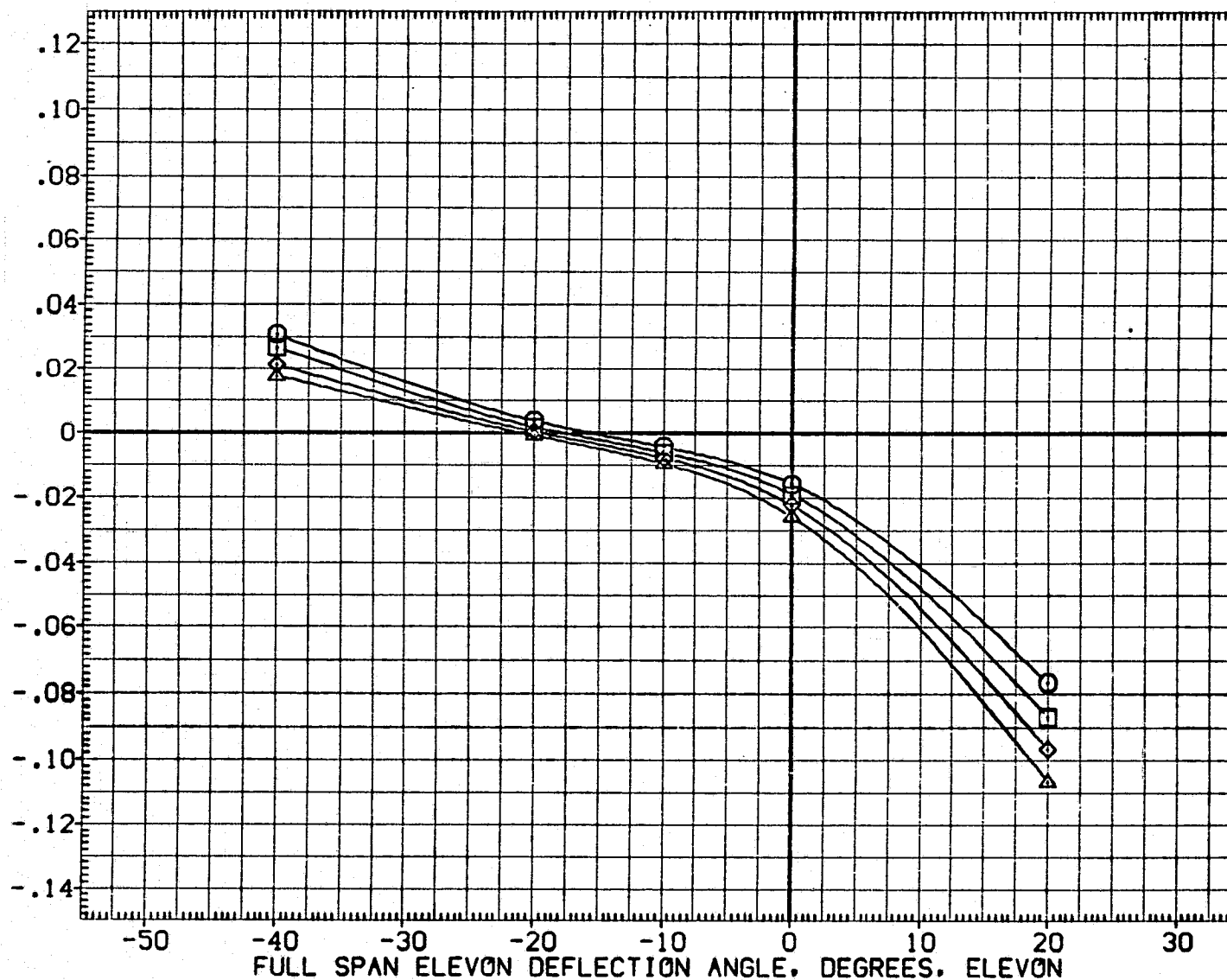


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇

ALPHA

22.000

MACH
BDFLAP

PARAMETRIC VALUES

5.000

BETA

RUDDER

.000 DATASET

.000 ATV029

ATV025

ATV020

DATA SOURCE

ELV-L0

-40.000

-10.000

20.000

DATASET

ATV027

ATV005

ELV-L0

-20.000

.000

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

REFERENCE INFORMATION

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

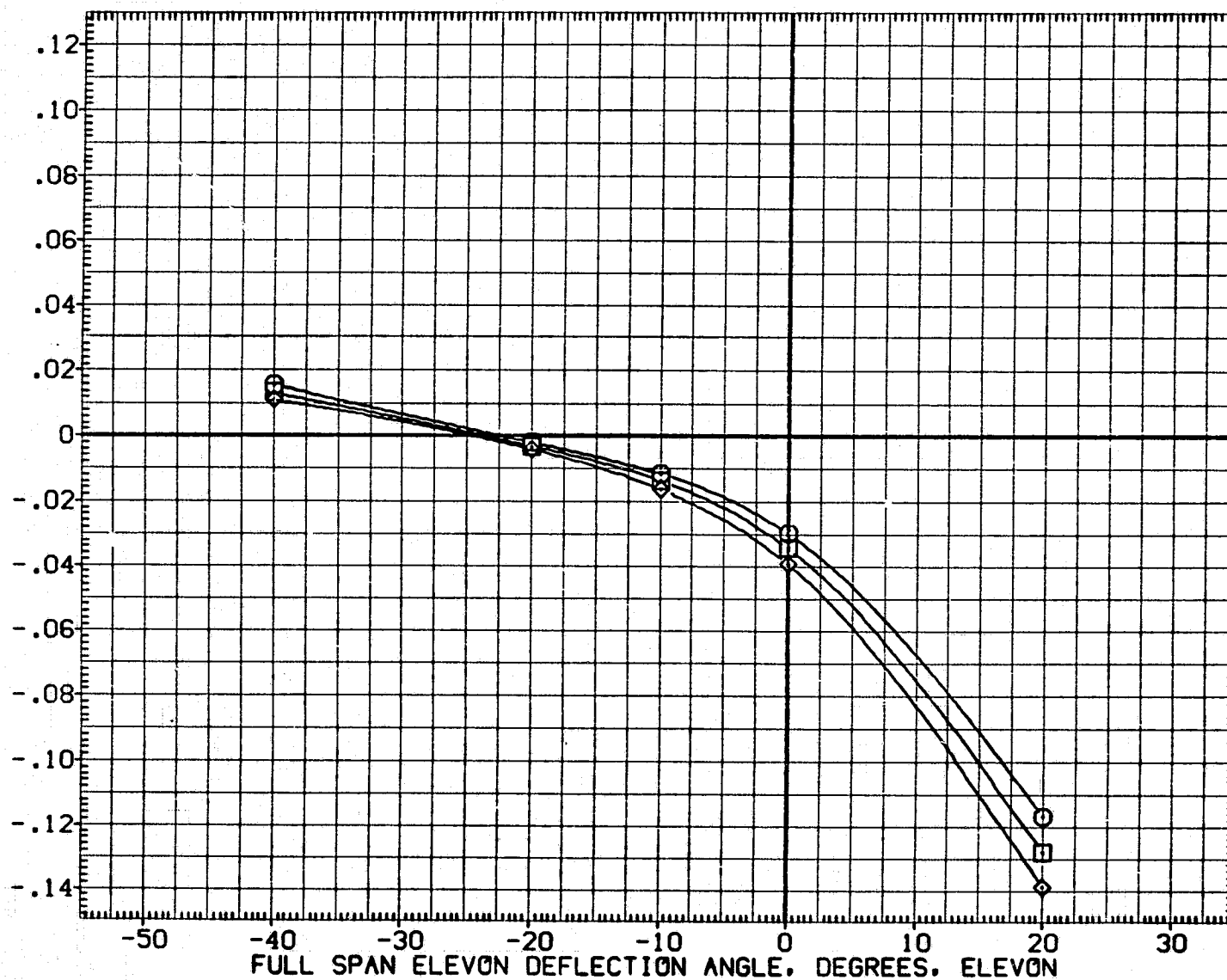


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

-2.000

MACH

BDFLAP

PARAMETRIC VALUES

5.000

BETA

.000

RUDDER

.000

DATASET

ATV029

ATV025

ATV020

DATA SOURCE

ELV-L0

-40.000

-10.000

20.000

DATASET

ATV027

ATV005

ELV-L0

-20.000

.000

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHE1 + CHE0)

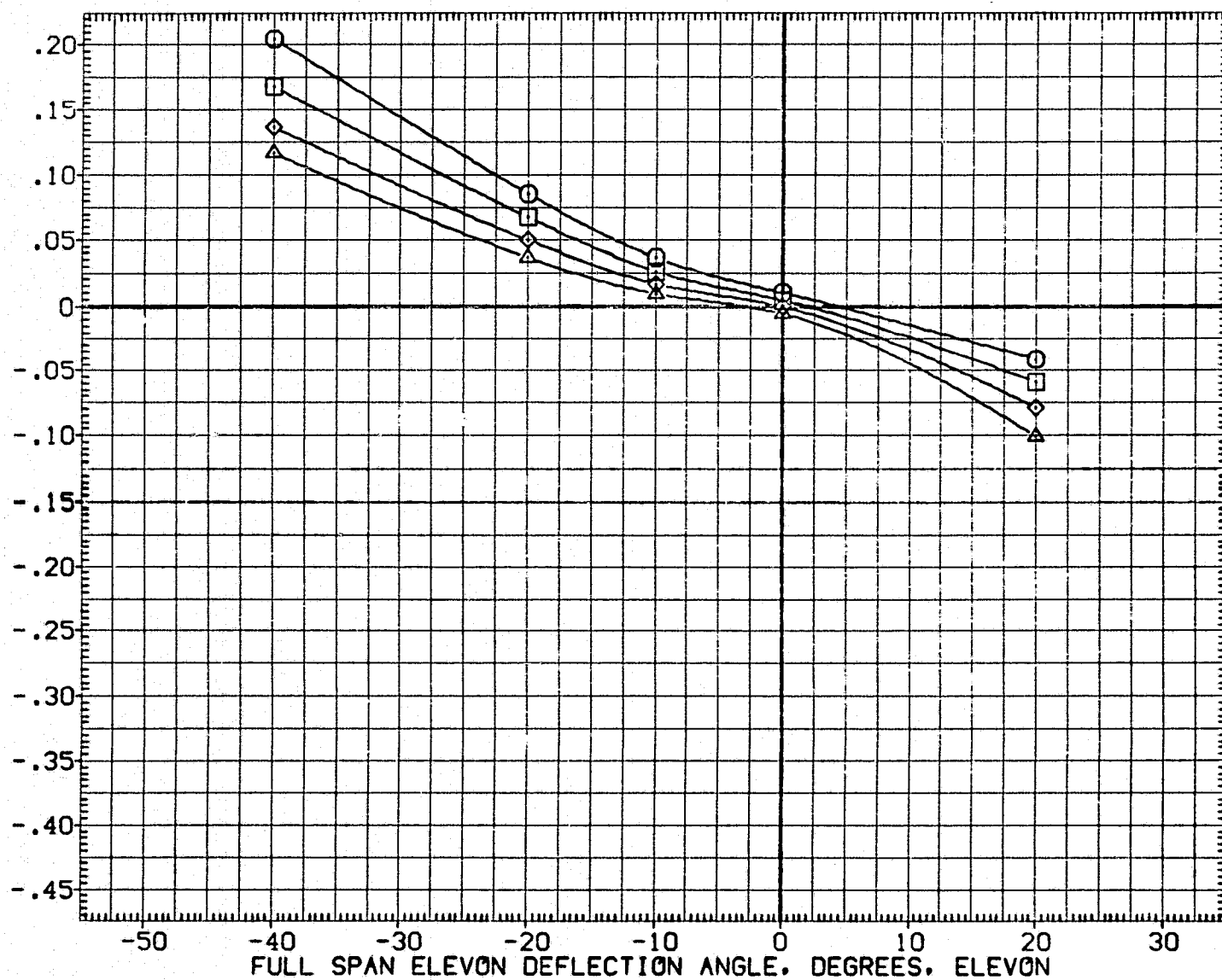


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

 SYMBOL
 ○
 □
 ◇
 △

 ALPHA
 6.000
 8.000
 10.000
 12.000

 MACH
 BDFLAP

 PARAMETRIC VALUES
 5.000 BETA
 .000 RUDDER

 .000 DATASET
 .000 ATV029
 .000 ATV025
 .000 ATV020

 DATA SOURCE
 ELV-L0
 -40.000
 -10.000
 20.000

 DATASET
 ATV027
 ATV005

 ELV-L0
 -20.000
 .000

 SREF 2690.0000
 LREF 474.8100
 BREF 936.6800
 XMRP 1076.6800
 YMRP .0000
 ZMRP 375.0000
 SCALE .0150

 REFERENCE INFORMATION
 SQ.FT.
 IN.
 IN.
 IN.X0
 IN.Y0
 IN.Z0

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

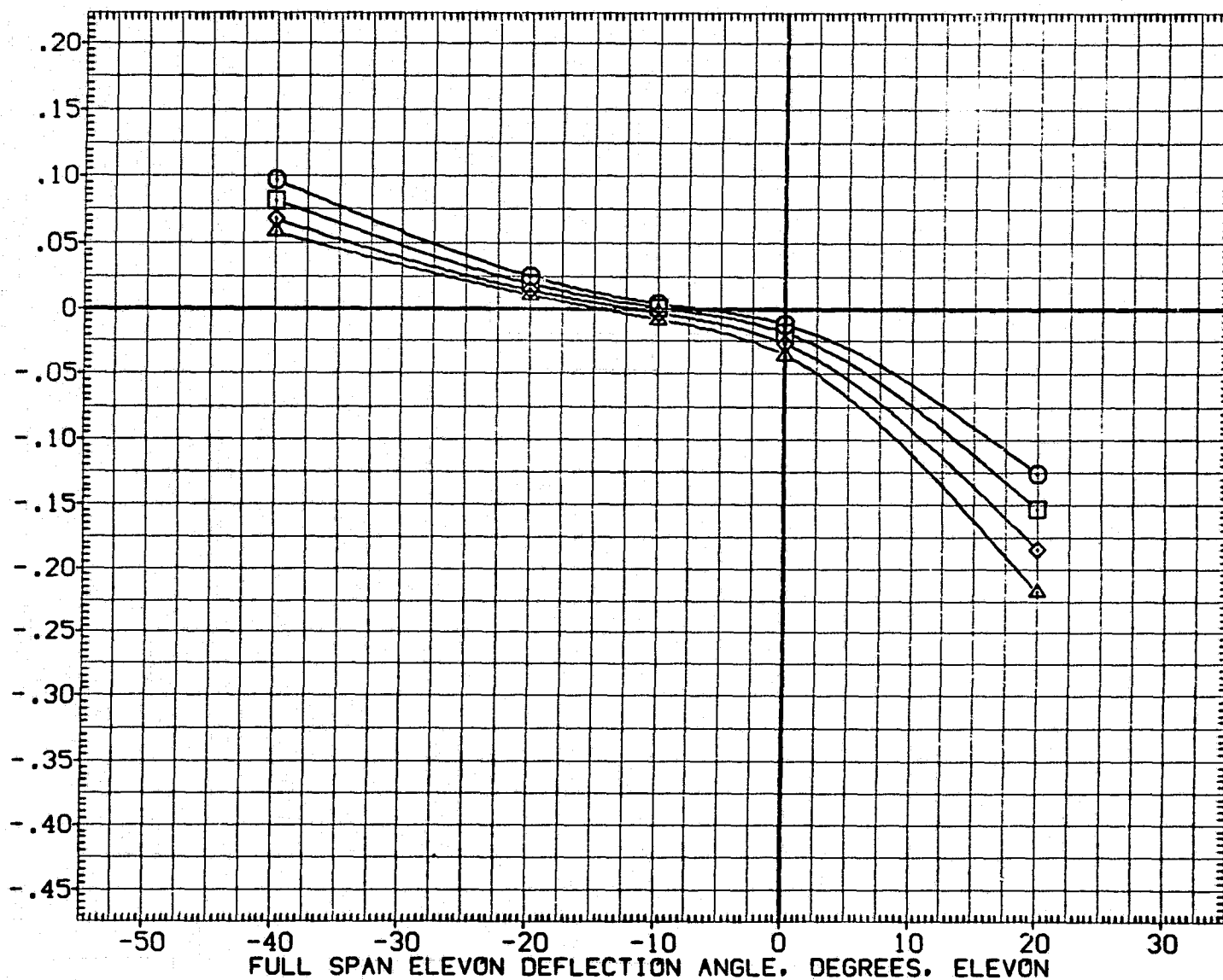


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL

○
□
◇
△

ALPHA

14.000

MACH
BOFLAP

PARAMETRIC VALUES

5.000 BETA
.000 RUDDER

.000 DATASET
.000 ATV029
ATV025
ATV020

DATA SOURCE

ELV-L0
-40.000
-10.000
20.000

DATASET
ATV027
ATV005

ELV-L0
-20.000
.000

SREF
LREF
BREF
XMRP
YMRP
ZMRP
SCALE

REFERENCE INFORMATION

2690.0000 SQ.FT.
474.8100 IN.
936.6800 IN.
1076.6800 IN.X0
.0000 IN.Y0
375.0000 IN.Z0
.0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

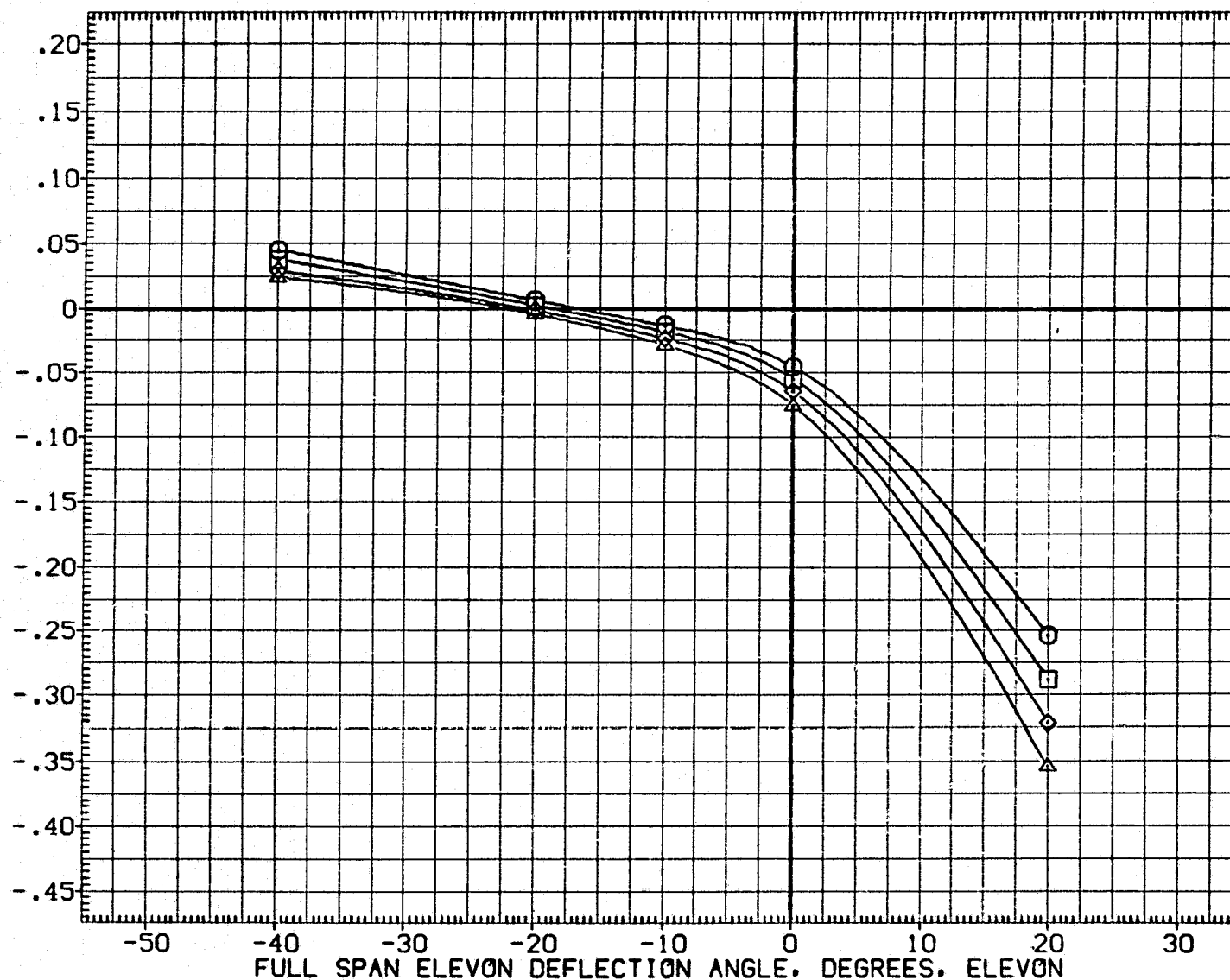


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029)

SYMBOL
○
□
◇ALPHA
22.000
24.000
26.000MACH
BDFLAPPARAMETRIC VALUES
S.000 BETA
.000 RUDDER.000 DATASET
.000 ATV029
ATV025
ATV020DATA SOURCE
ELV-L0
-40.000
-10.000
20.000DATASET
ATV027
ATV005ELV-L0
-20.000
.000SREF 2690.0000
LREF 474.8100
BREF 936.6800
XMRP 1076.6800
YMRP .0000
ZMRP 375.0000
SCALE .0150REFERENCE INFORMATION
SQ.FT.
IN.
IN.
IN.X0
IN.Y0
IN.Z0

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

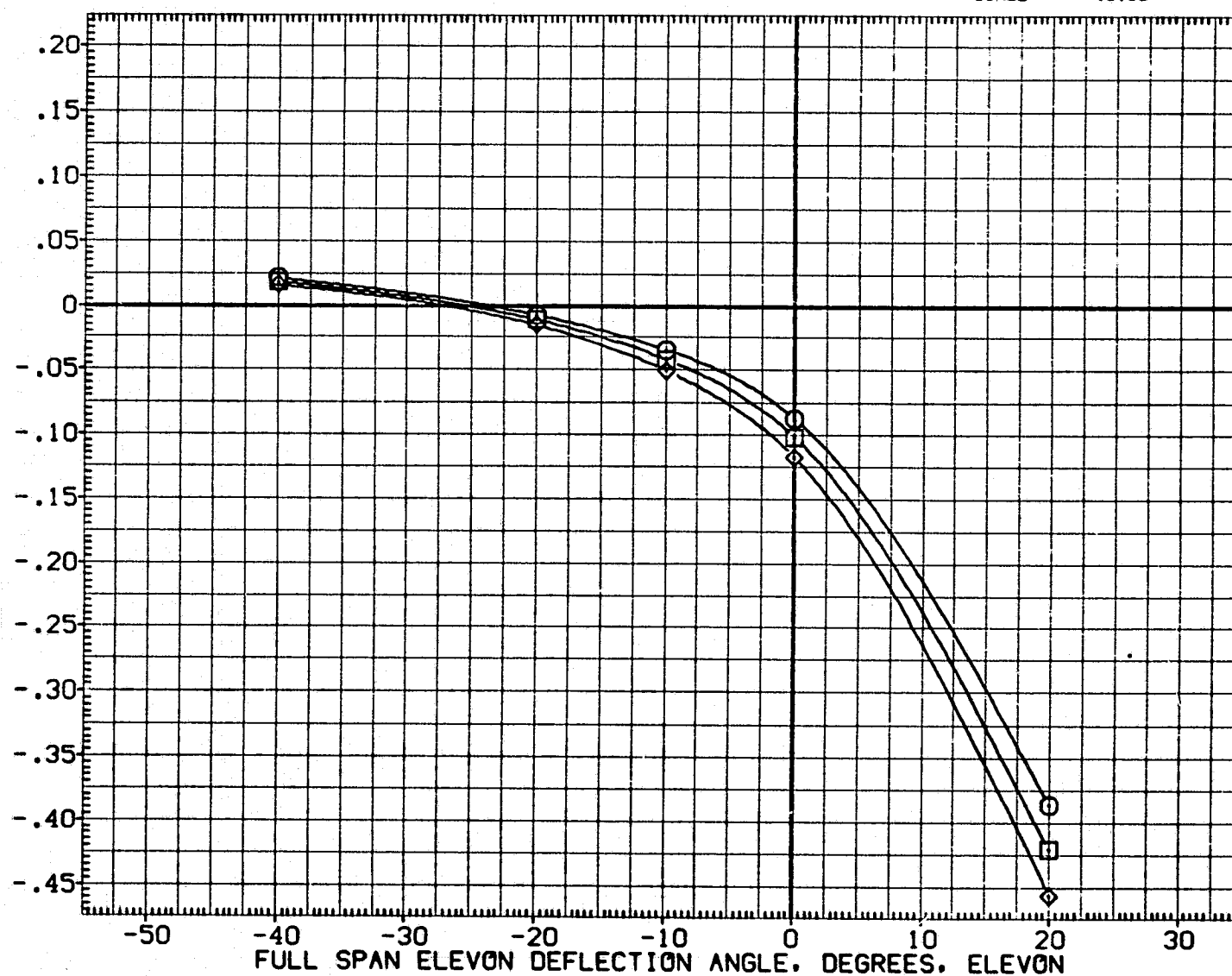


FIG. 9 ELEVON HINGE MOMENTS - FULL SPAN DEFLECTIONS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BT030)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116
(BT034)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116
(BT039)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116
(BT006)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116
(BT040)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
.000	-40.000	-40.000	.000	SREF	2690.0000	50.FT.
.000	-20.000	-20.000	.000	LREF	474.8100	IN.
.000	-10.000	-10.000	.000	BREF	936.6800	IN.
.000	.000	.000	.000	XMRP	1076.6800	IN.X0
.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
				ZMRP	375.0000	IN.Z0
				SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

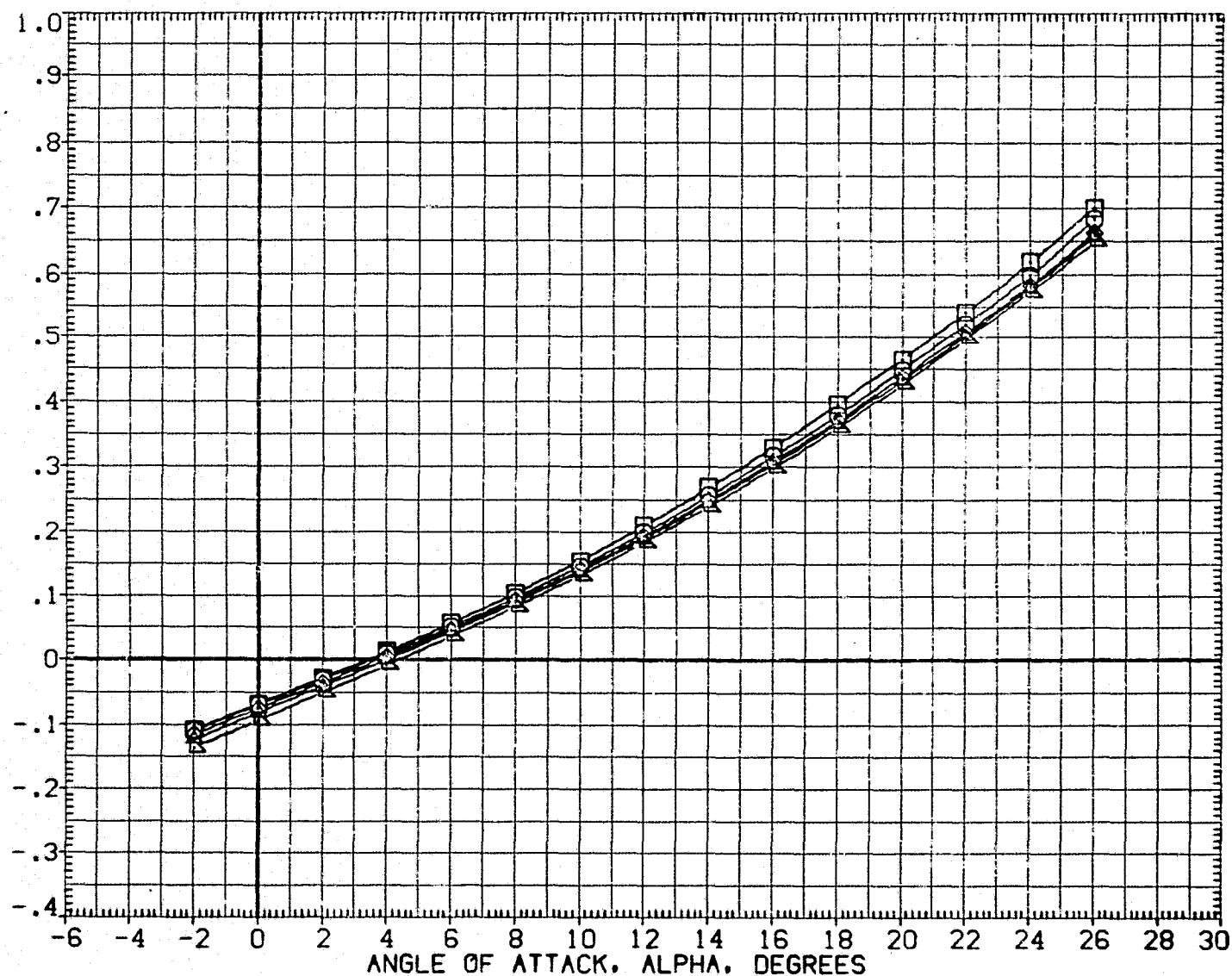


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.).CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO30)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000	SQ.FT.
(BTVO34)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(BTVO39)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6800	IN.
(BTVO06)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
(BTVO40)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0:50	

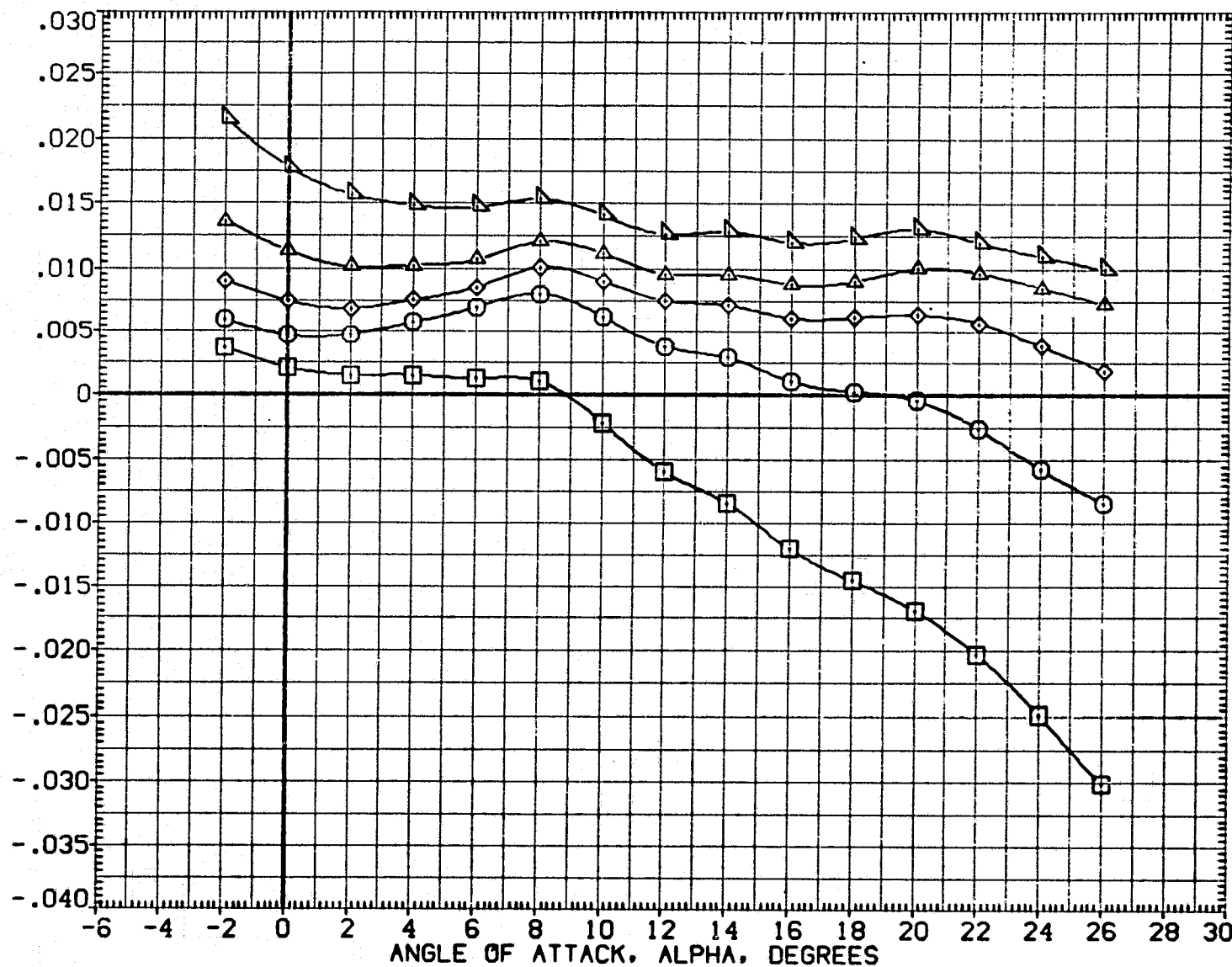


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.). CLMAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO30)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000	50.FT.
(BTVO34)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(BTVO39)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6900	IN.
(BTVO06)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6900	IN.X0
(BTVO40)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

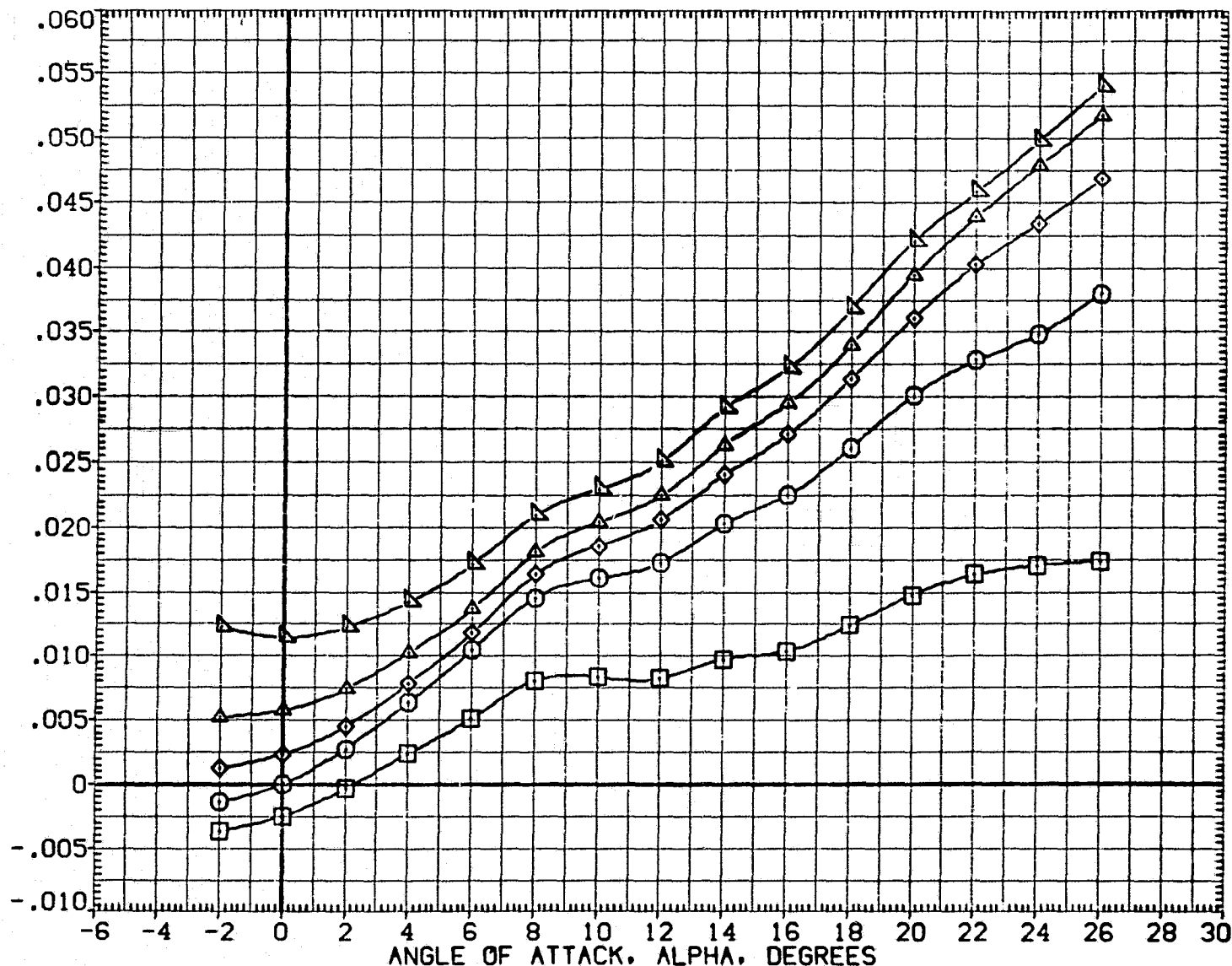


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), C_{LMFW}

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTV030)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000	50.FT.
(BTV034)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(BTV039)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6800	IN.
(BTV006)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
(BTV040)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

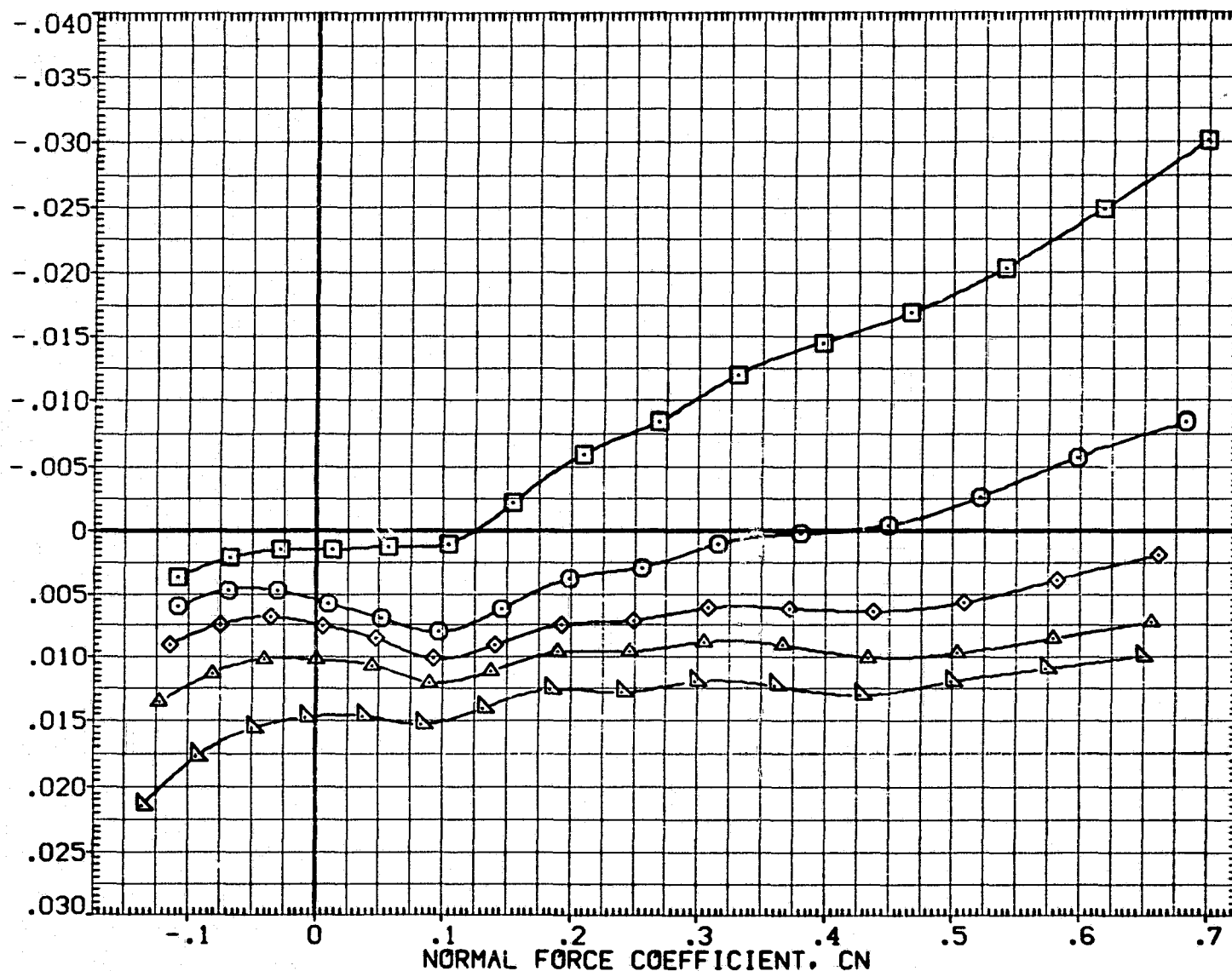


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A) MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION	
(BTVO30)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000 SQ.FT.
(BTVO34)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100 IN.
(BTVO39)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6800 IN.
(BTVO06)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800 IN.X0
(BTVO40)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

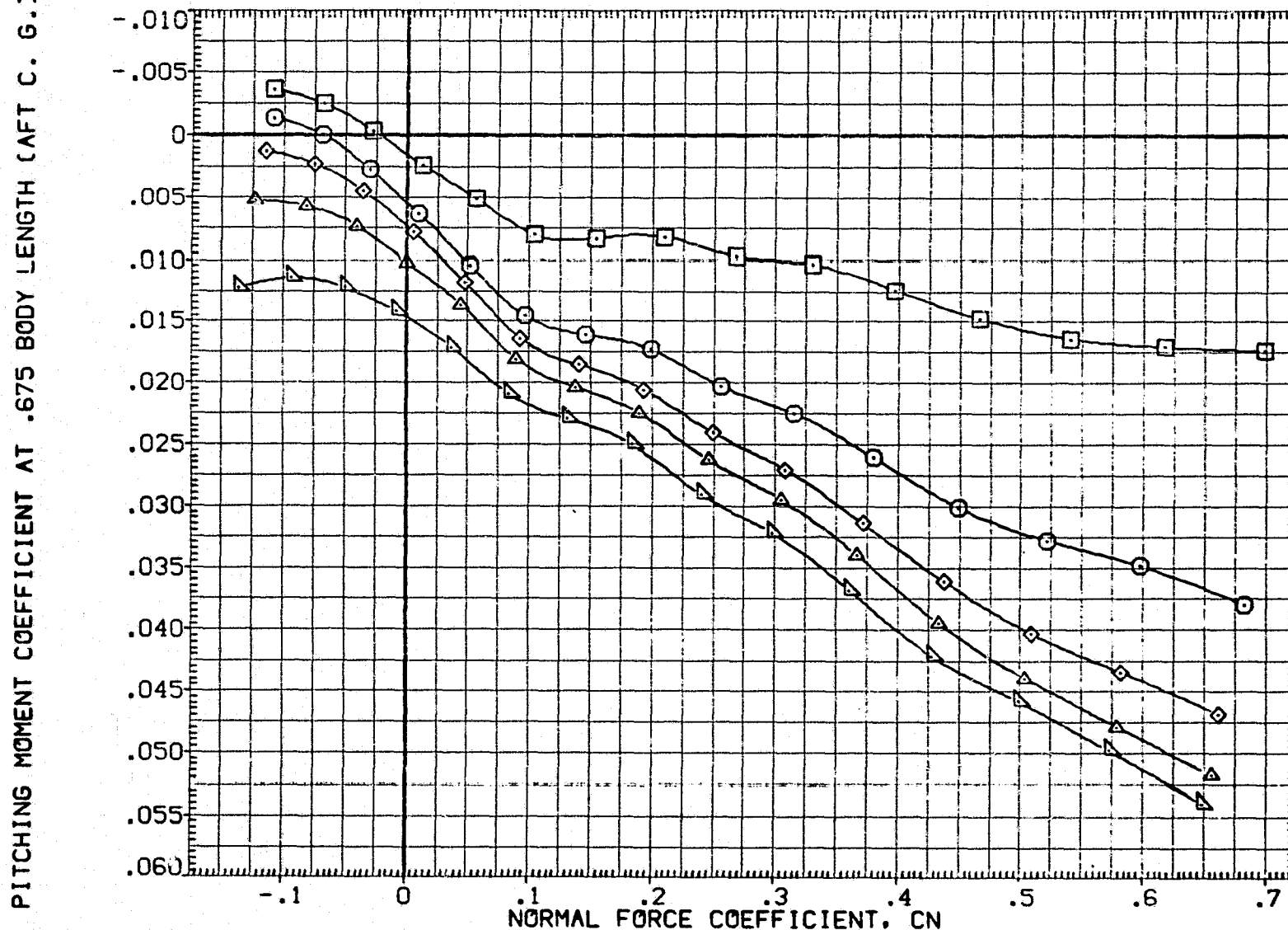


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO30)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-40.000	-40.000	.000	SREF	2690.0000	50.FT.
(BTVO34)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(BTVO39)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-10.000	-10.000	.000	BREF	936.6800	IN.
(BTVO06)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	XMRF	1076.6900	IN.X0
(BTVO40)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	10.000	10.000	.000	YMRF	.0000	IN.Y0
						ZMRF	375.0000	IN.Z0
						SCALE	.0150	

CENTER OF PRESSURE LOCATION-AS A FRACTION OF BODY LENGTH.

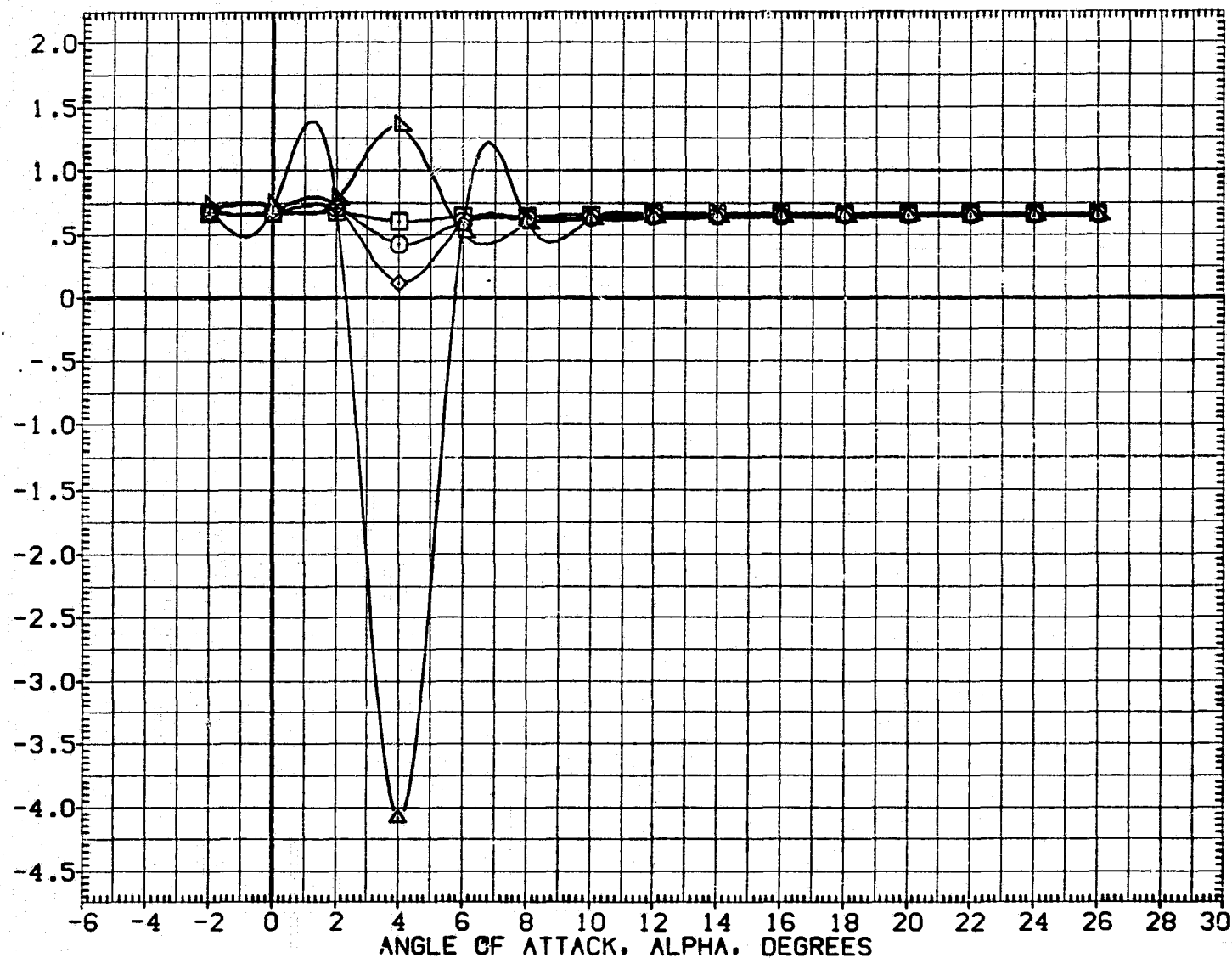


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A) MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(8TV030)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(8TV034)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(8TV039)	◇	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(8TV006)	◇	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(8TV040)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
.000	-40.000	-40.000	.000	SREF	2690.0000	SQ.FT.
.000	-20.000	-20.000	.000	LREF	474.8100	IN.
.000	-10.000	-10.000	.000	BREF	936.6800	IN.
.000	.000	.000	.000	XMRP	1076.6800	IN.X0
.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
				ZMRP	375.0000	IN.Z0
				SCALE	.0150	

AXIAL FORCE COEFFICIENT, C_A

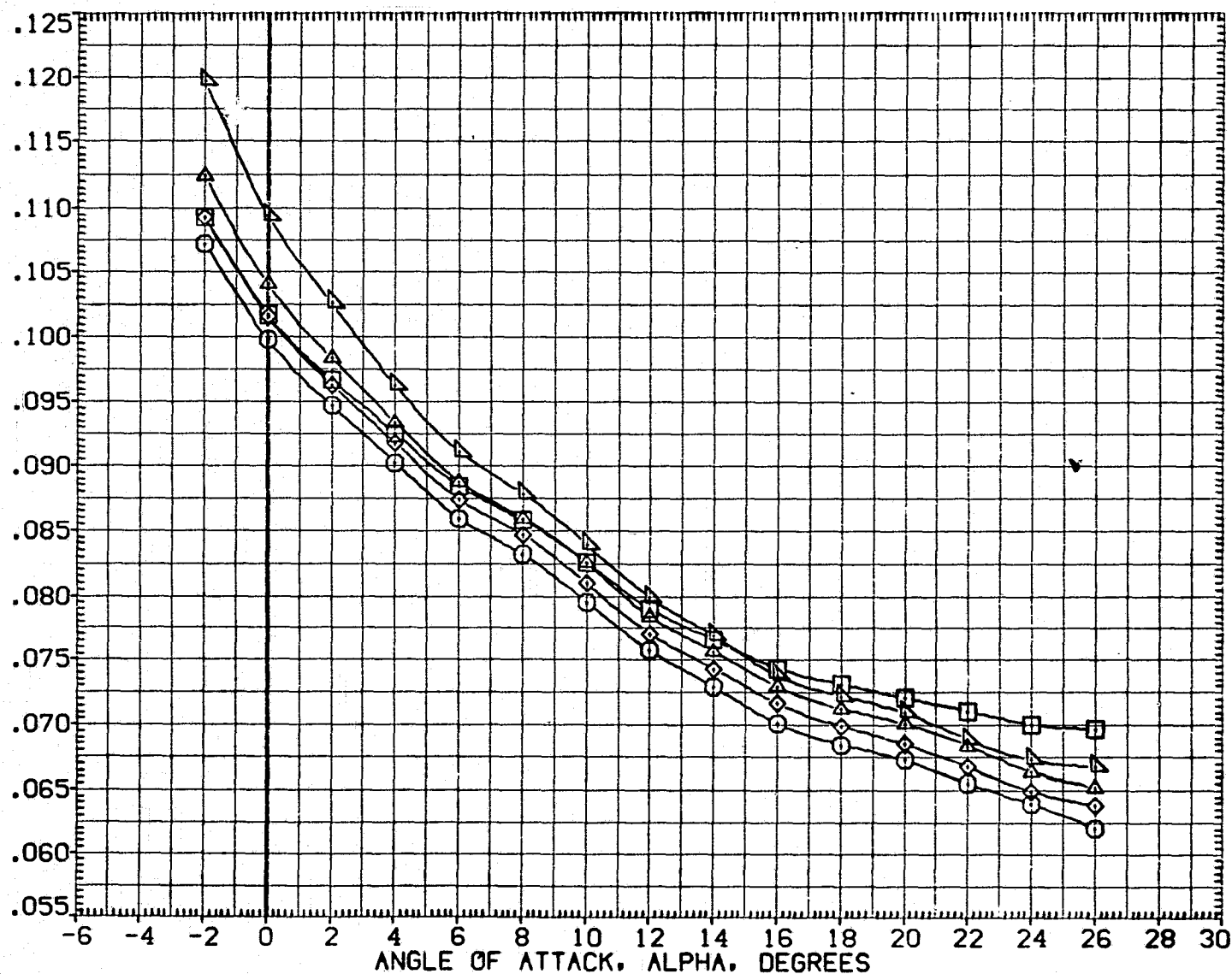


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTV030)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000	SQ.FT.
(BTV034)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(BTV039)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6800	IN.
(BTV006)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
(BTV040)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

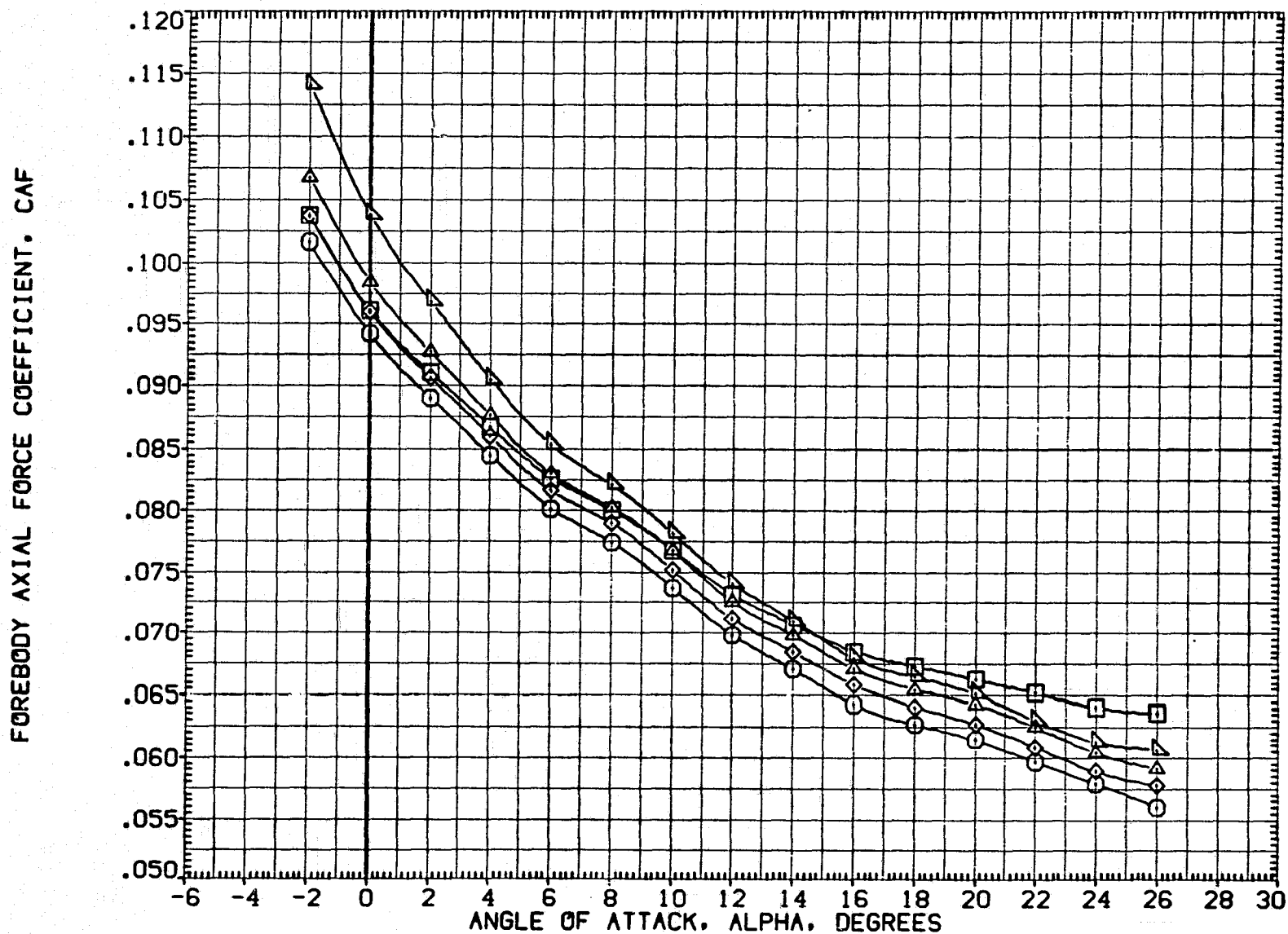


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO30)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-40.000	-40.000	.000	SREF	2690.0000	50.FT.
(BTVO34)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(BTVO39)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-10.000	-10.000	.000	BREF	935.6800	IN.
(BTVO06)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	XMRF	1076.6800	IN.X0
(BTVO40)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	10.000	10.000	.000	YMRF	.0000	IN.Y0
						ZMRF	375.0000	IN.Z0
						SCALE	.0150	

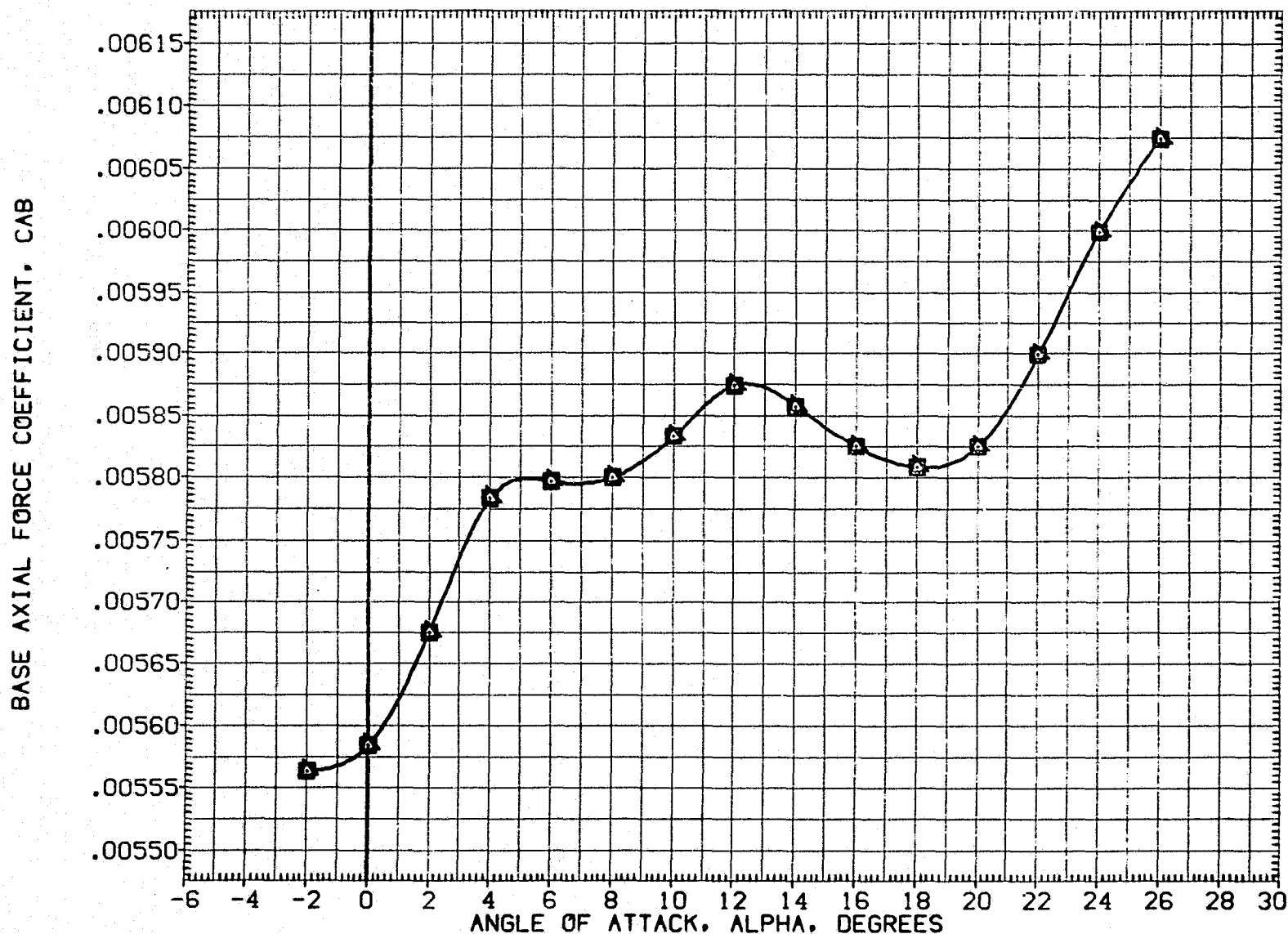


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO30)	△	0A115	B26 C9 E43 F8 M16 N26 R5 V8 W116
(BTVO34)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO39)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO06)	○	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116
(BTVO40)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	-40.000	-40.000	.000
.000	-20.000	-20.000	.000
.000	-10.000	-10.000	.000
.000	.000	.000	.000
.000	10.000	10.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SG.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

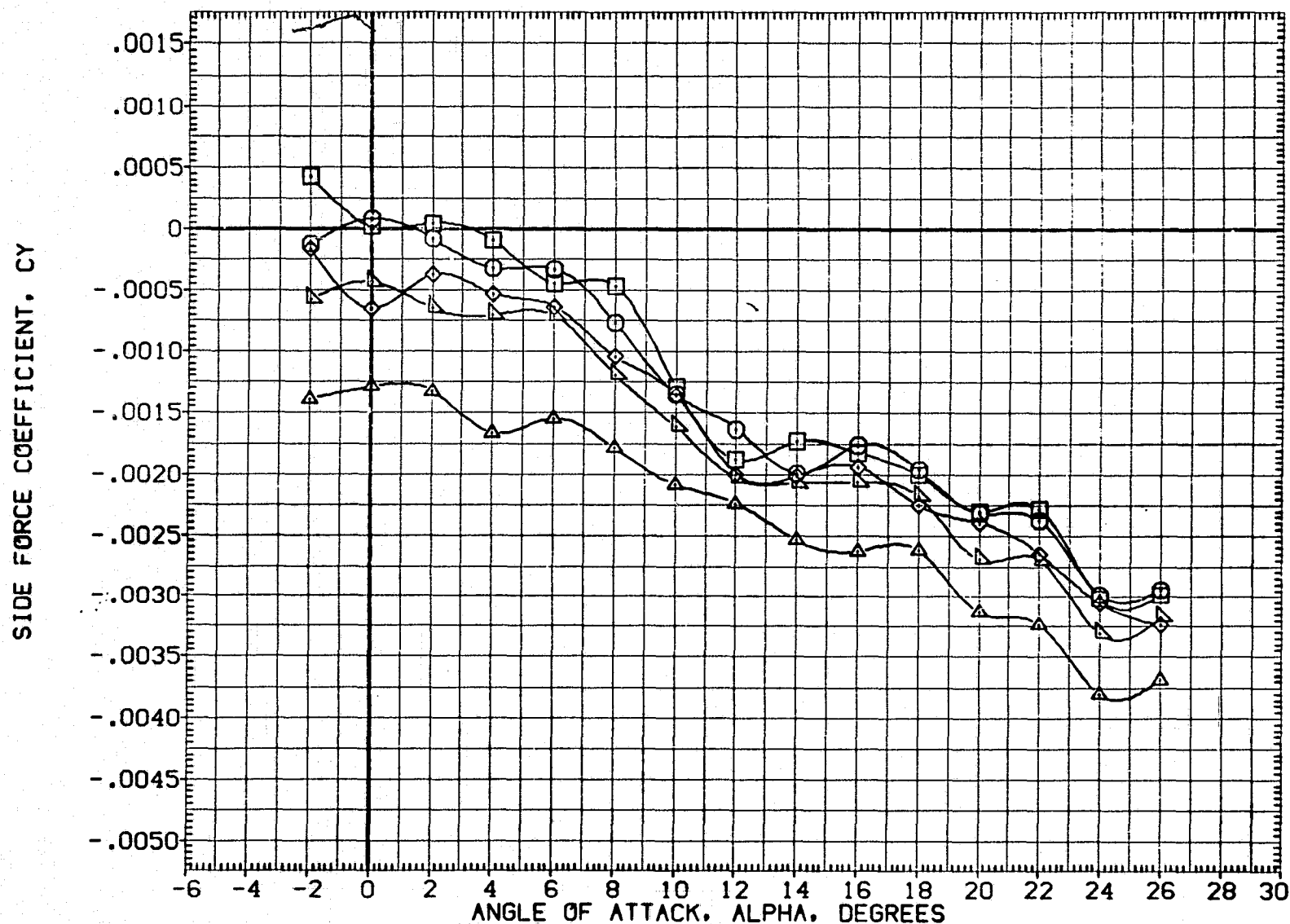


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO30)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000	SQ.FT.
(BTVO34)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(BTVO39)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6800	IN.
(BTVO06)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
(BTVO40)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

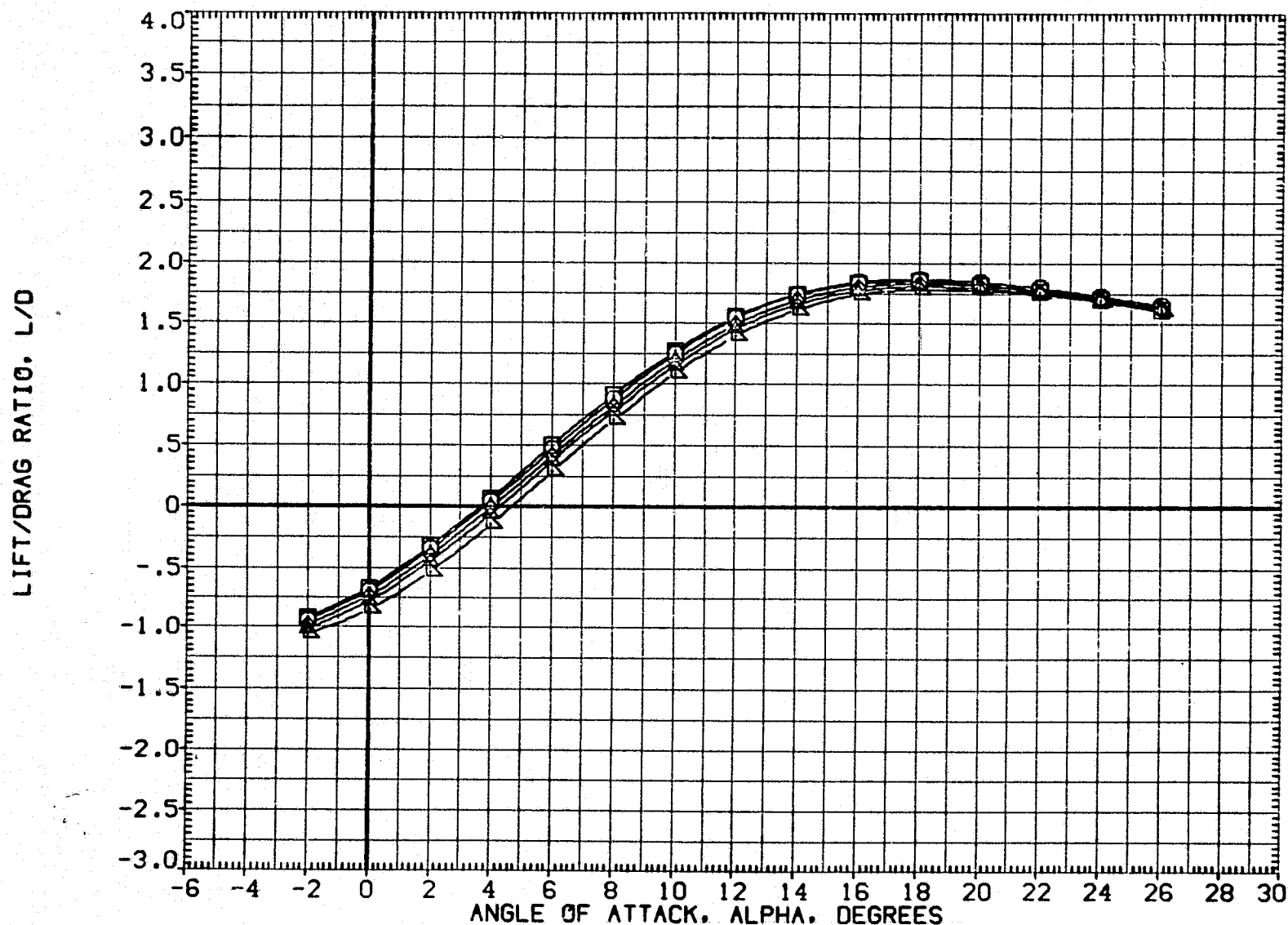


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV030)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000	50.FT.
(RTV034)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(RTV039)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6800	IN.
(RTV006)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
(RTV040)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

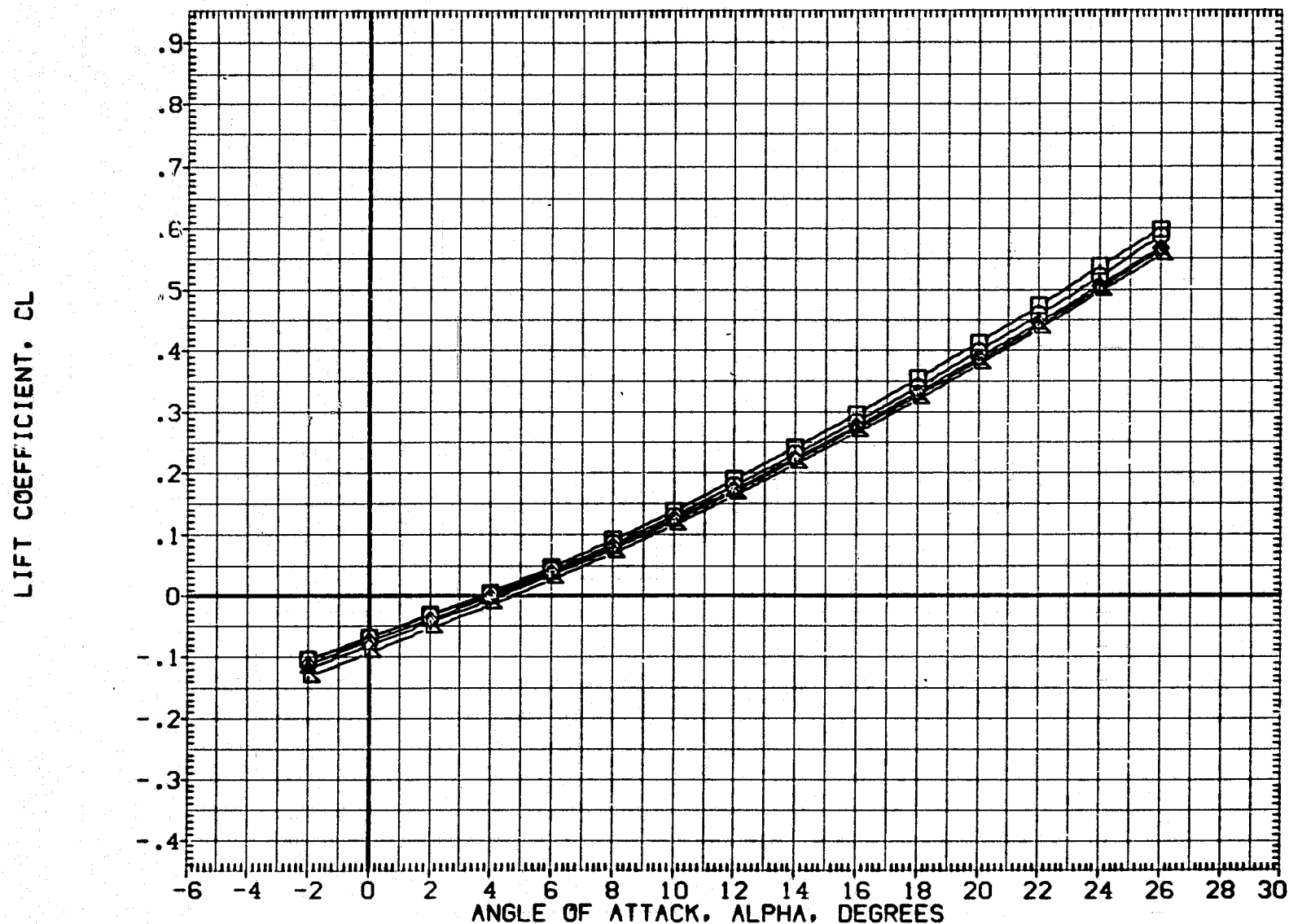


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A) MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV030)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000	SQ.FT.
(RTV034)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(RTV039)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6800	IN.
(RTV006)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
(RTV040)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

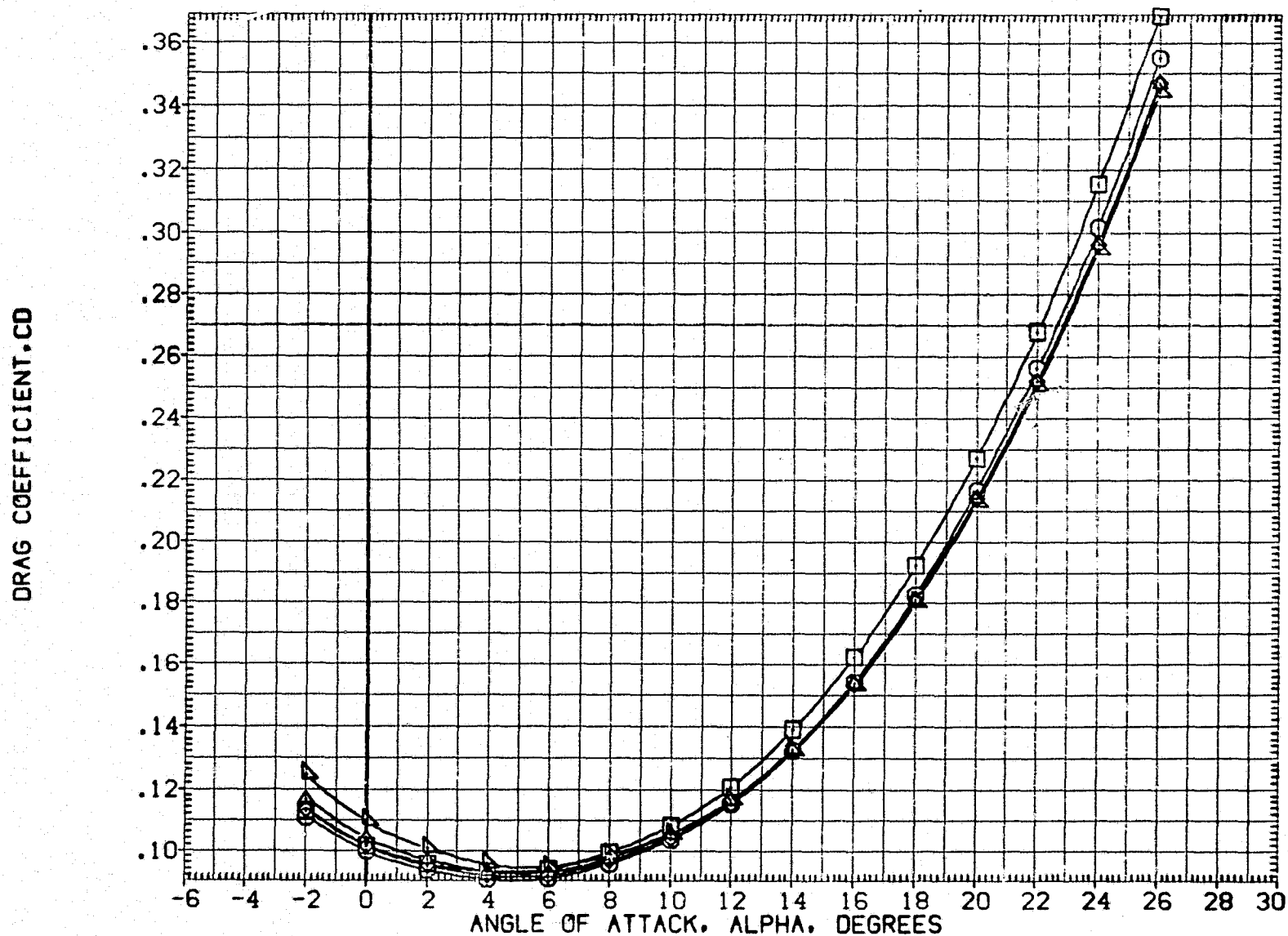


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV030)	0A115 026 C9 E43 F8 M16 N28 R3 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000	50.FT.
(RTV034)	0A115 026 C9 E43 F8 M16 N28 R3 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(RTV032)	0A115 026 C9 E43 F8 M16 N28 R3 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6800	IN.
(RTV006)	0A115 026 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
(RTV040)	0A115 026 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

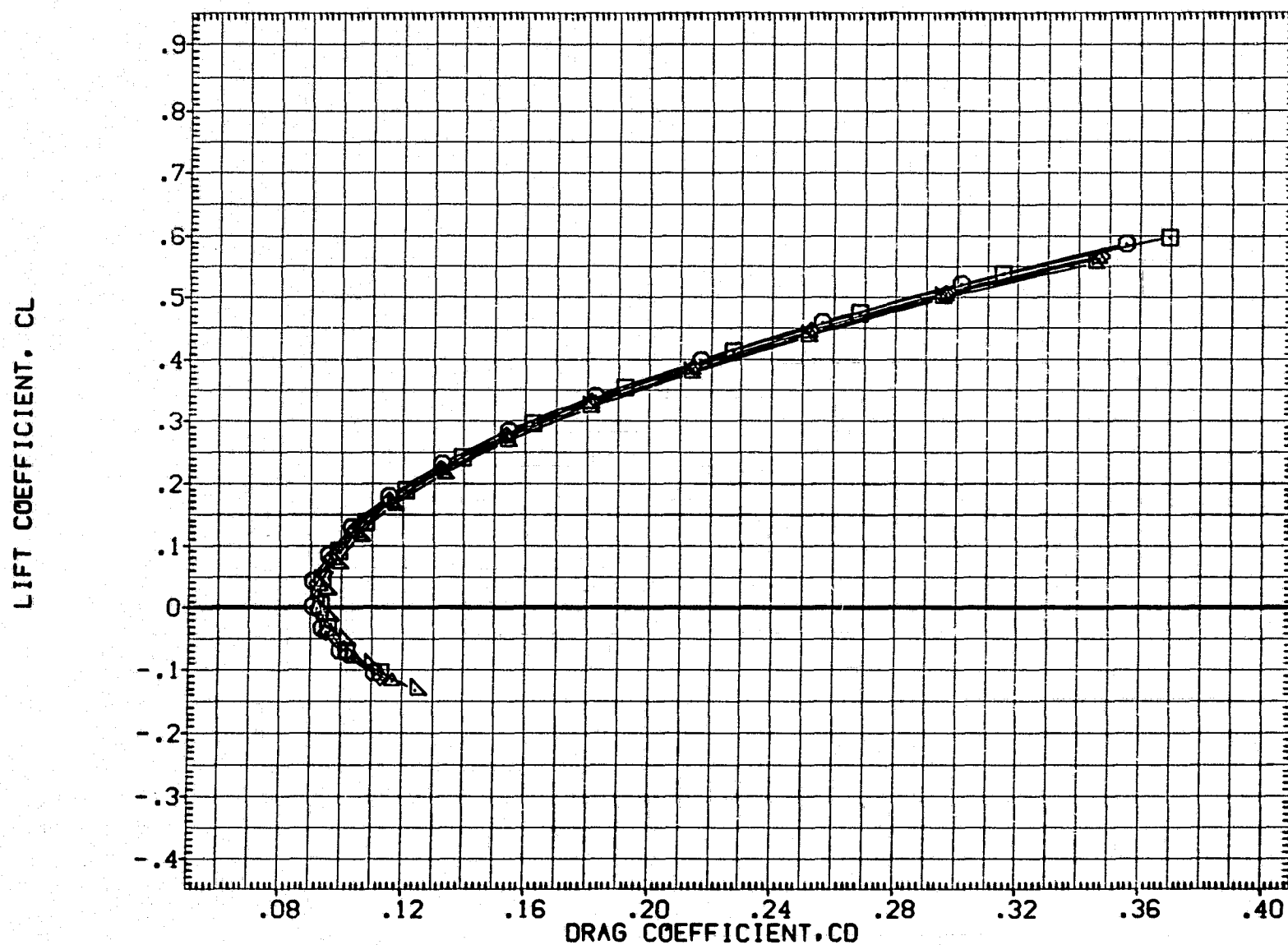


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A) MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(ATV030)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000 SQ.FT.
(ATV034)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100 IN.
(ATV039)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6800 IN.
(ATV006)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800 IN.X0
(ATV040)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

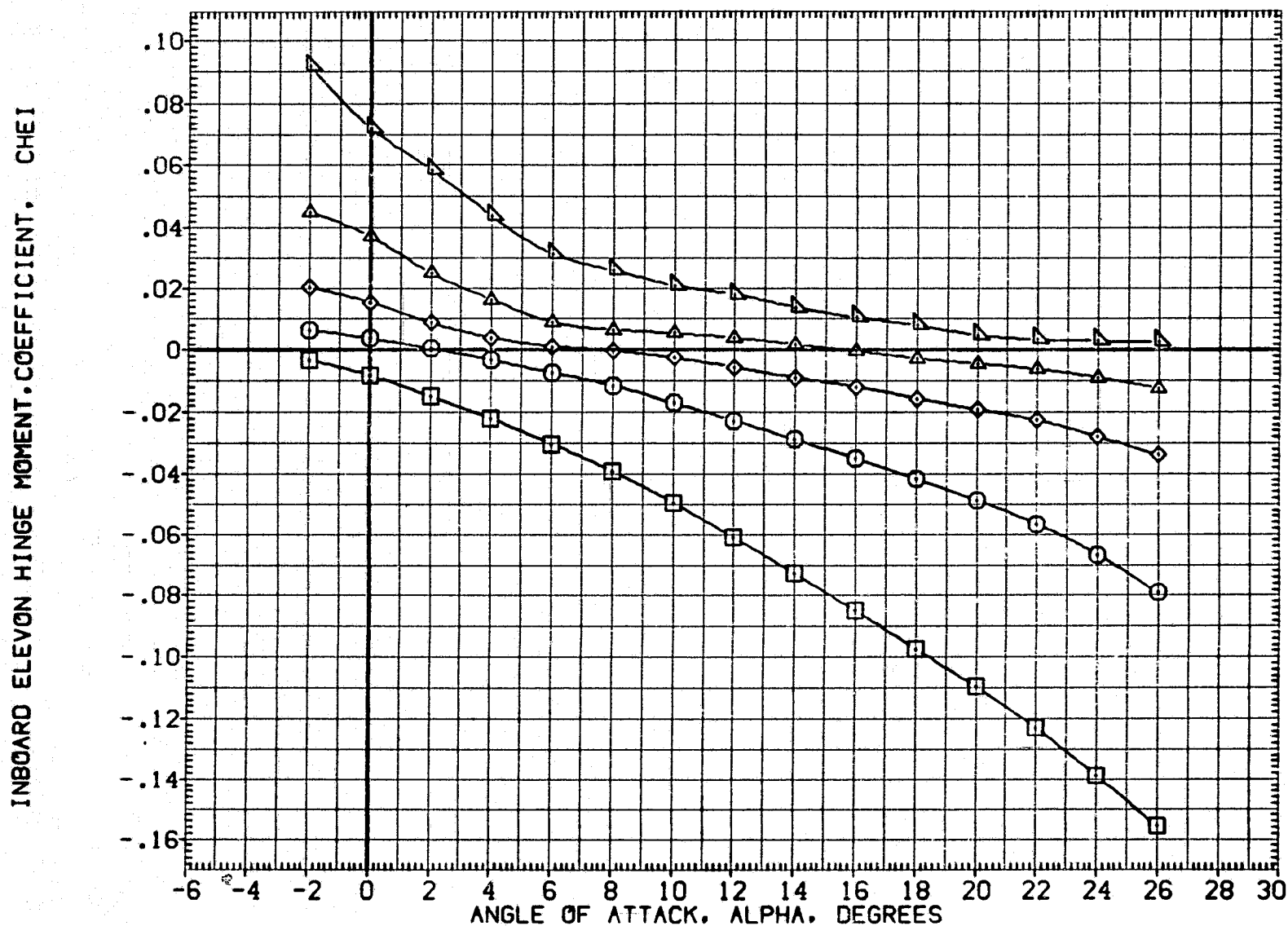


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV030)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000	SREF	2690.0000	50.FT.
(ATV034)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	474.8100	IN.
(ATV039)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	936.6800	IN.
(ATV006)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
(ATV040)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

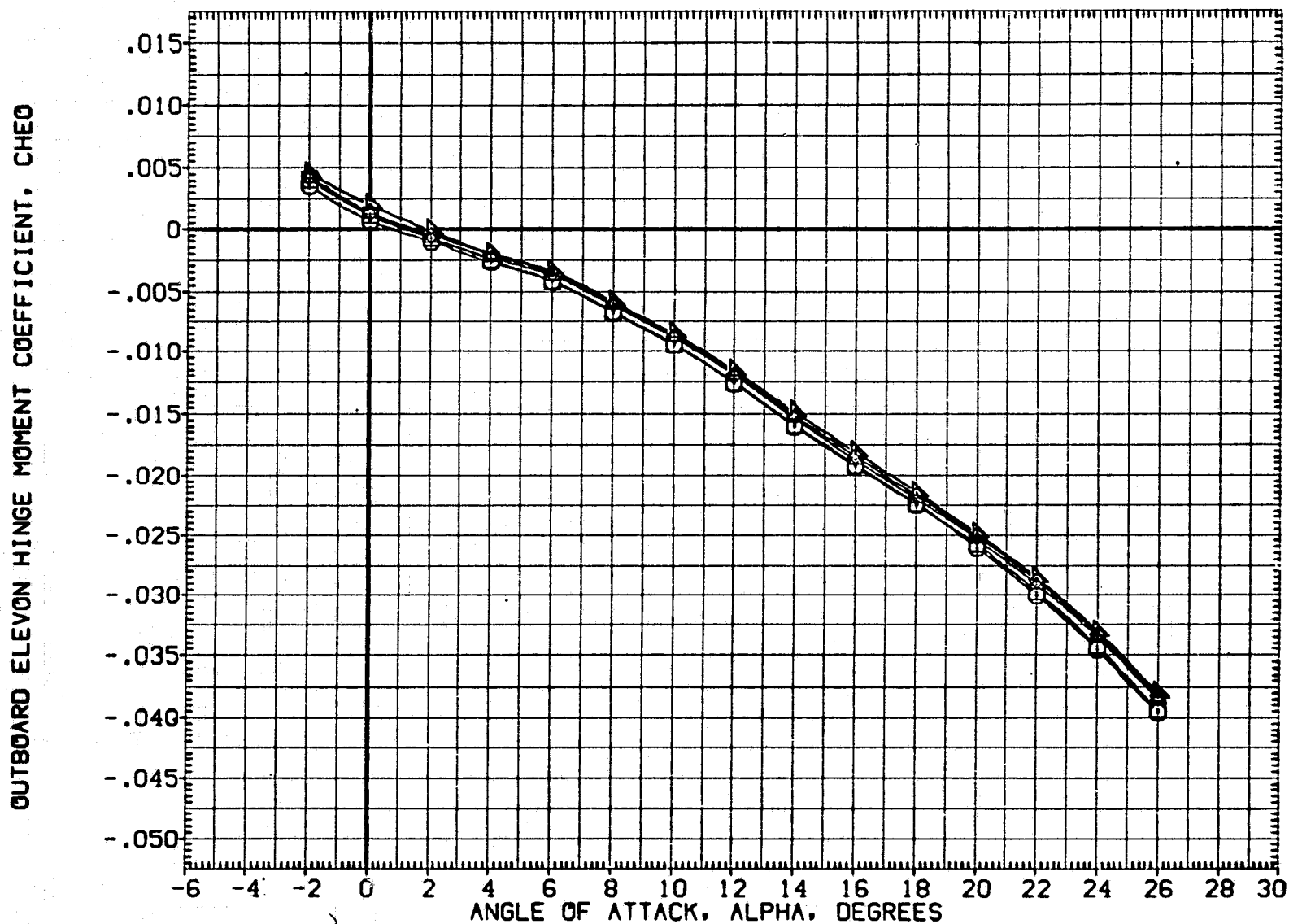


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV030)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV034)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV039)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV006)	○	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV040)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
.000	-40.000	-40.000	.000	SREF	2690.0000	50.FT.
.000	-20.000	-20.000	.000	LREF	474.8100	IN.
.000	-10.000	-10.000	.000	BREF	936.6800	IN.
.000	.000	.000	.000	XMRP	1076.6800	IN.X0
.000	10.000	10.000	.000	YMRP	.0000	IN.Y0
				ZMRP	375.0000	IN.Z0
				SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CCHI + CHE0)

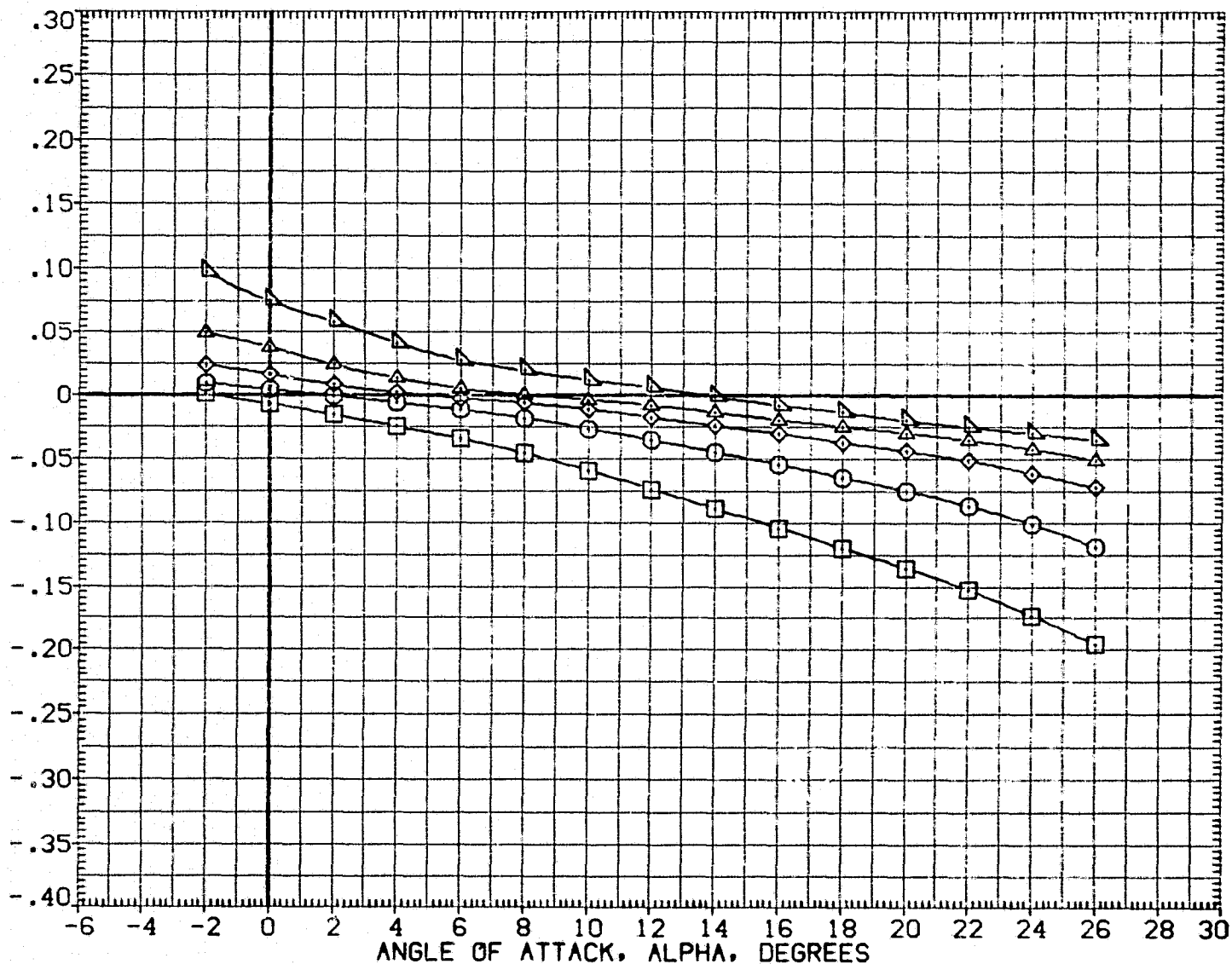


FIG. 10 INBOARD ELEVON EFFECT. W/OUTBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
(A)MACH = 5.00

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	-3.000		5.000 DLTEL0	.000 DATASET	2690.0000 SQ.FT.
□	.000	DLTER0	.000 BETA	.000 CTV030	474.8100 IN.
◇	5.000	BDFLAP	.000 RUDDER	.000 CTV039	936.6800 IN.
△	10.000			.000 CTV040	1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL LIFT FORCE COEFFICIENT, DLICL

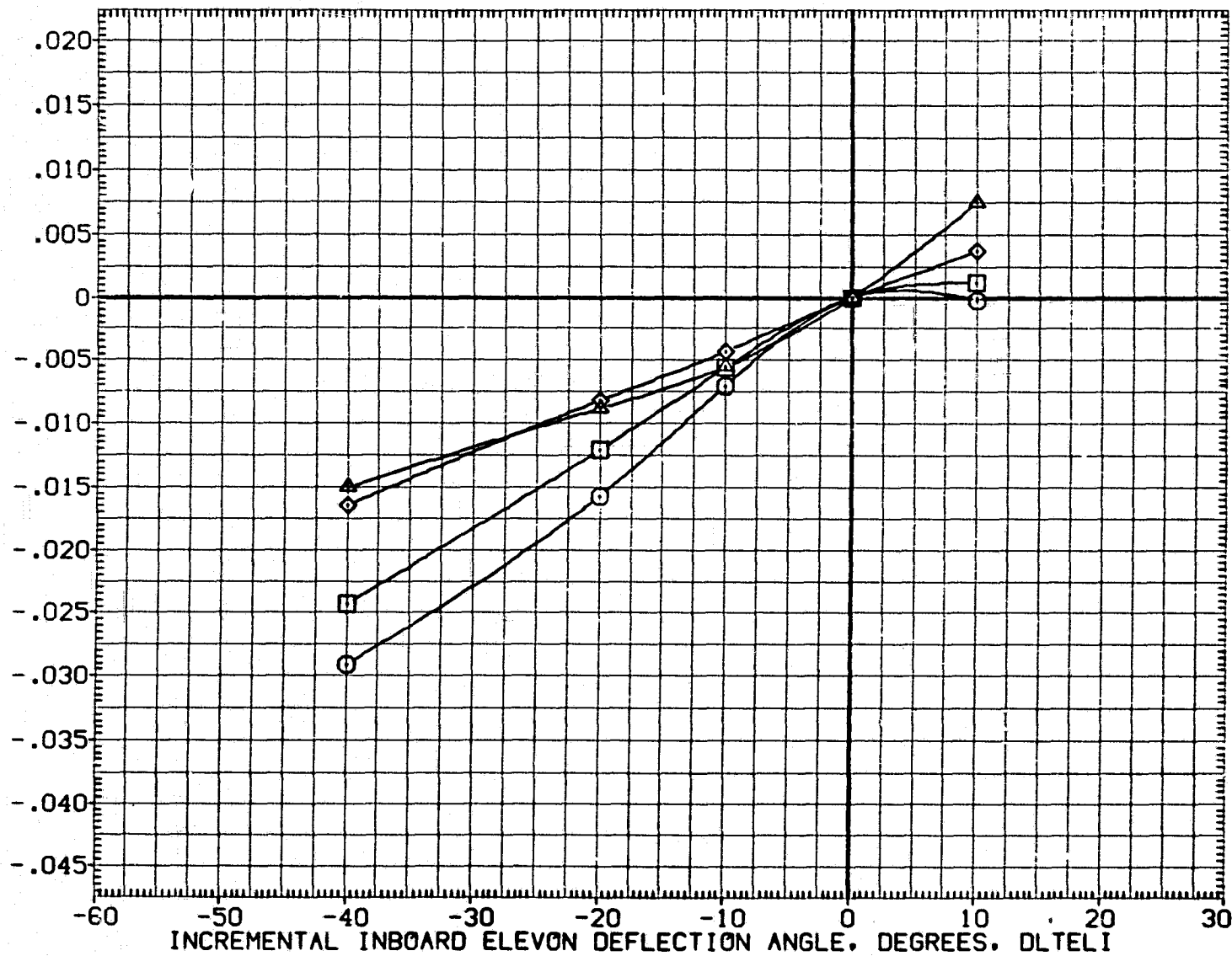


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W11S

(CTV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	15.000		5.000	DLTEL0	.000	DATASET	DLTELI	DATASET	DLTELI	SREF	2690.0000	50.FT.
□	20.000	DLTER0	.000	BETA	.000	CTV030	-40.000	CTV034	-20.000	LREF	474.8100	IN.
◇	25.000	80FLAP	.000	RUDDER	.000	CTV039	-10.000	CTV006	.000	BREF	936.6800	IN.
△	27.000					CTV040	10.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL LIFT FORCE COEFFICIENT, DLICL

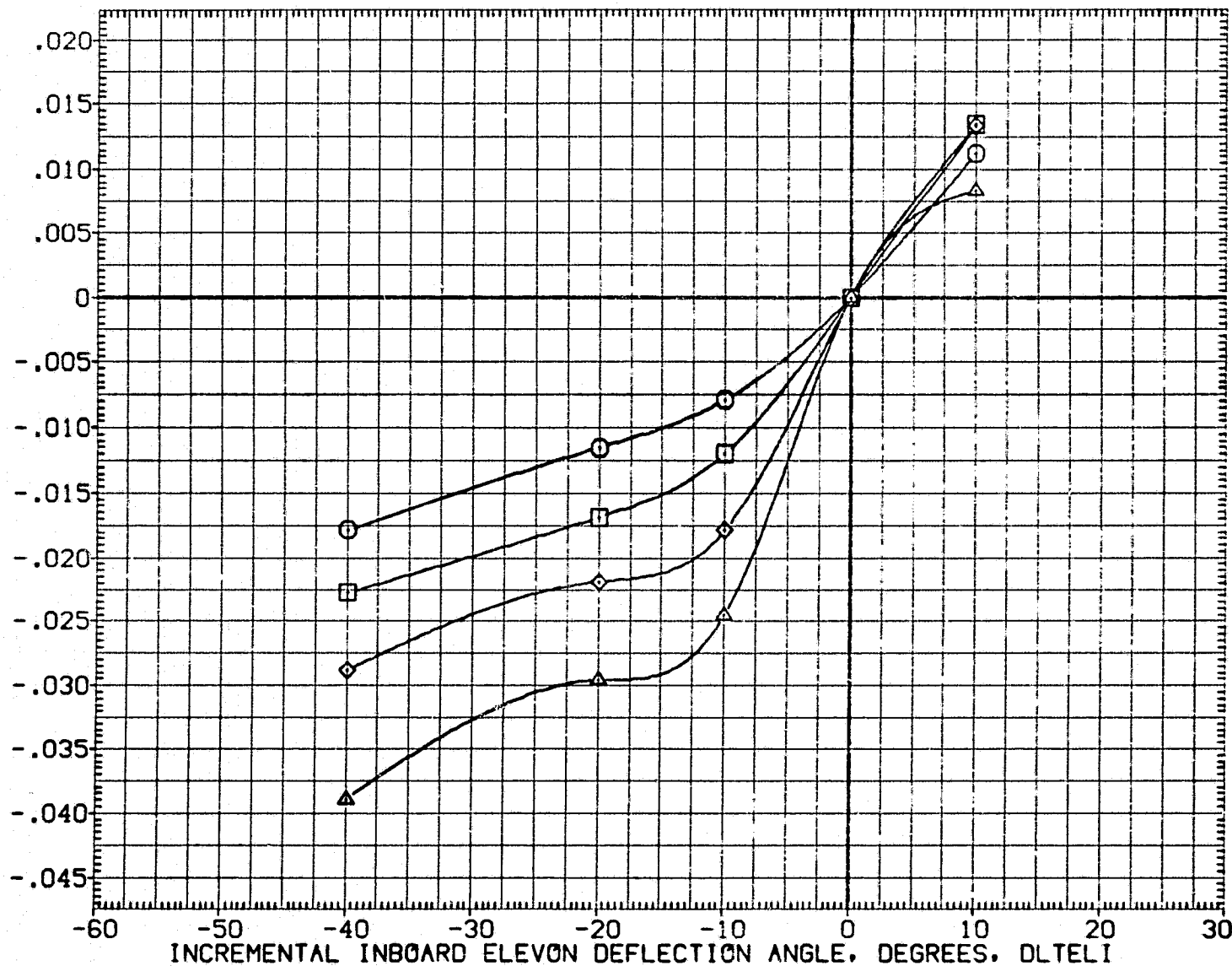


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV030)

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	-3.000	MACH 5.000 DLTELO .000	DATASET .DLTELO	SREF 2690.0000 SQ.FT.
□	.000	DLTERO .000 BETA .000	CTV030 -40.000	LREF 474.8100 IN.
◇	5.000	BOFLAP .000 RUDDER .000	CTV039 -10.000	BREF 936.6800 IN.
△	10.000		CTV040 10.000	XMRP 1076.6800 IN.X0
				YMRP .0000 IN.Y0
				ZMRP 375.0000 IN.Z0
				SCALE .0150

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

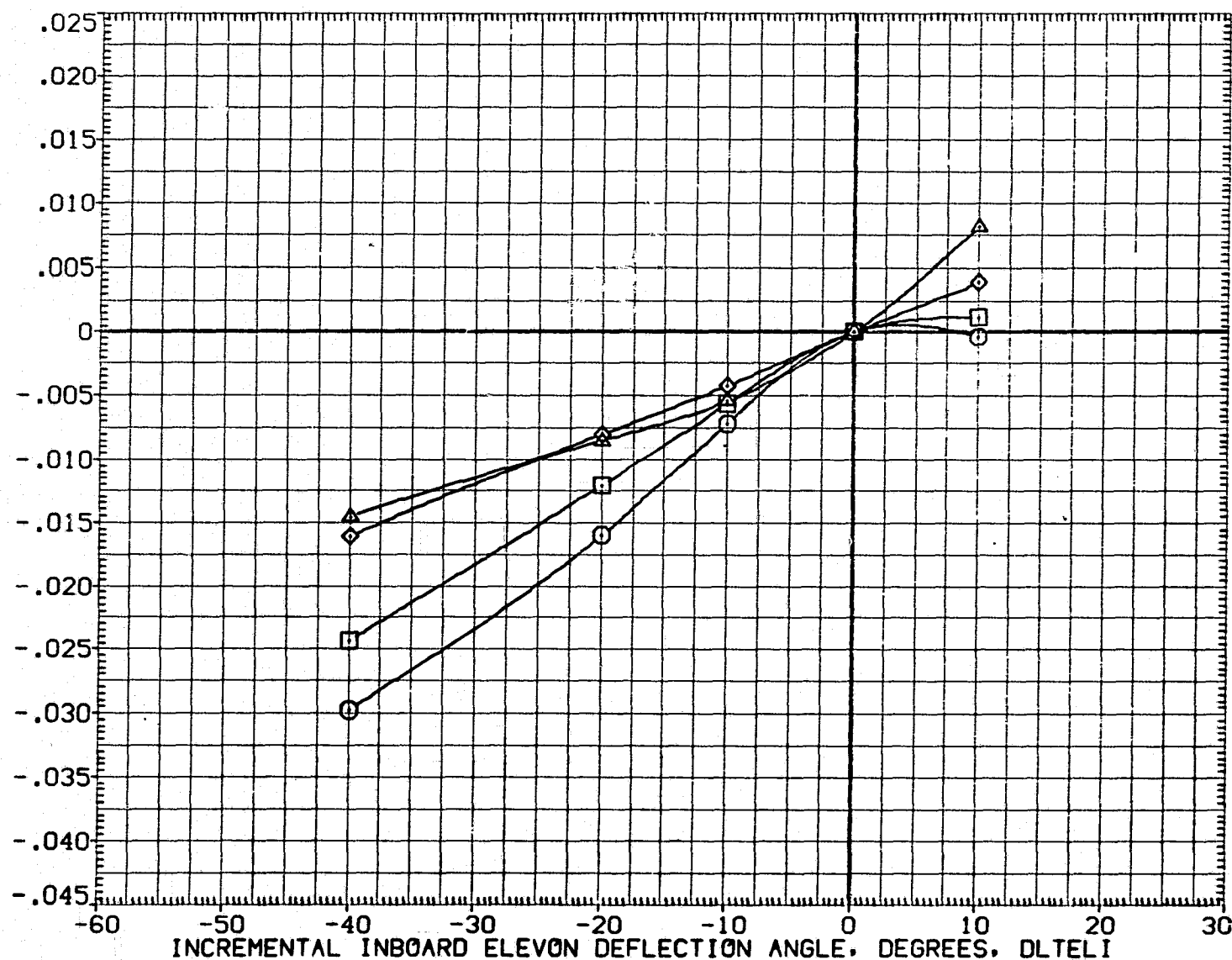


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV030)

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	15.000	MACH 5.000 DLTELO .000	DATASET CTV030	SREF 2690.0000 SO.FT.
□	20.000	DLTERO .000 BETA .000	DLTELI -40.000 DATASET CTV034	LREF 474.8100 IN.
◇	25.000	BDFLAP .000 RUDDER .000	CTV039 -10.000 CTV006	SREF 936.6800 IN.
△	27.000		CTV040 10.000	XMRP 1076.6800 IN.X0
				YMRP .0000 IN.Y0
				ZMRP 375.0000 IN.Z0
				SCALE .0150

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

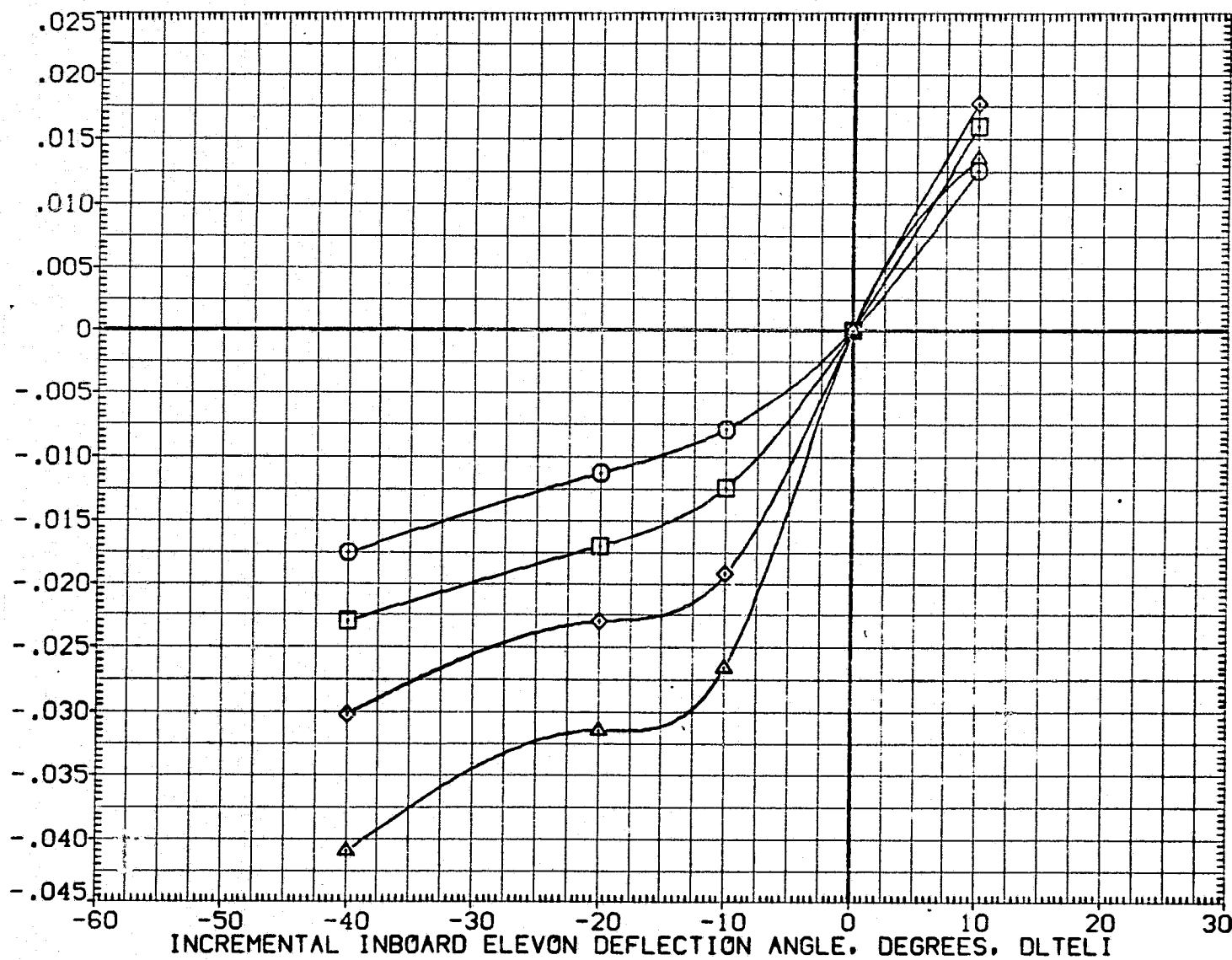


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	-3.000		5.000 DLTEL0	.000 DATASET	SREF 2690.0000 SQ.FT.
□	.000	DLTER0	.000 BETA	.000 CTV030	LREF 474.8100 IN.
◇	5.000	BDFLAP	.000 RUDDER	.000 CTV039	BREF 936.6800 IN.
△	10.000			.000 CTV040	XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL DRAG FORCE COEFFICIENT, DLICD

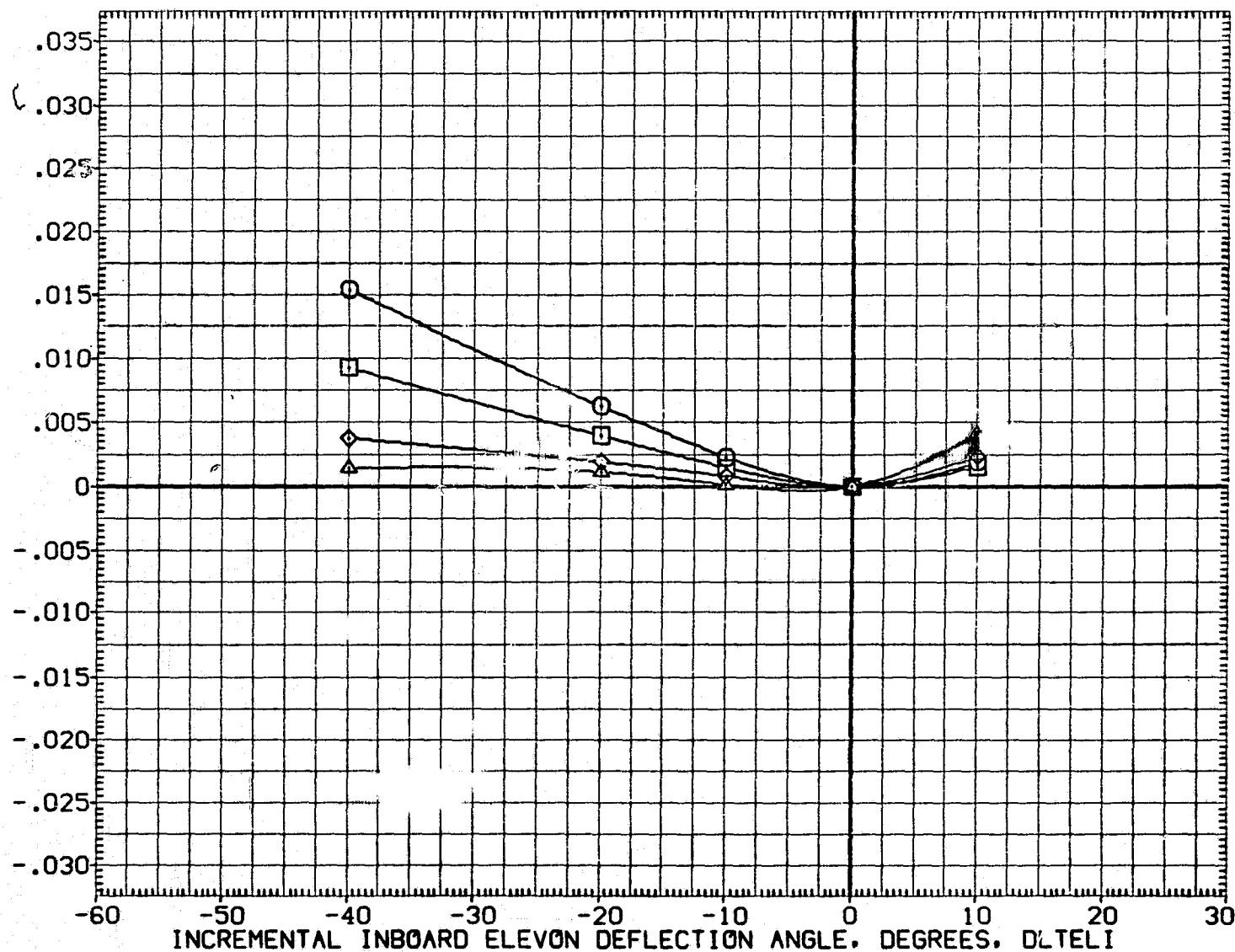


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV030)

SYMBOL

○
□
◇
△

ALPHA

MACH
DLTER0
BOFLAP

PARAMETRIC VALUES

5.000 DLTEL0
.000 BETA
.000 RUDDER

.000 DATASET
.000 CTV030
.000 CTV039
.000 CTV040

DATA SOURCE

DLTEL1
-40.000
-10.000
10.000

DATASET
CTV034
CTV006

DLTEL1
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL DRAG FORCE COEFFICIENT, DLTCO

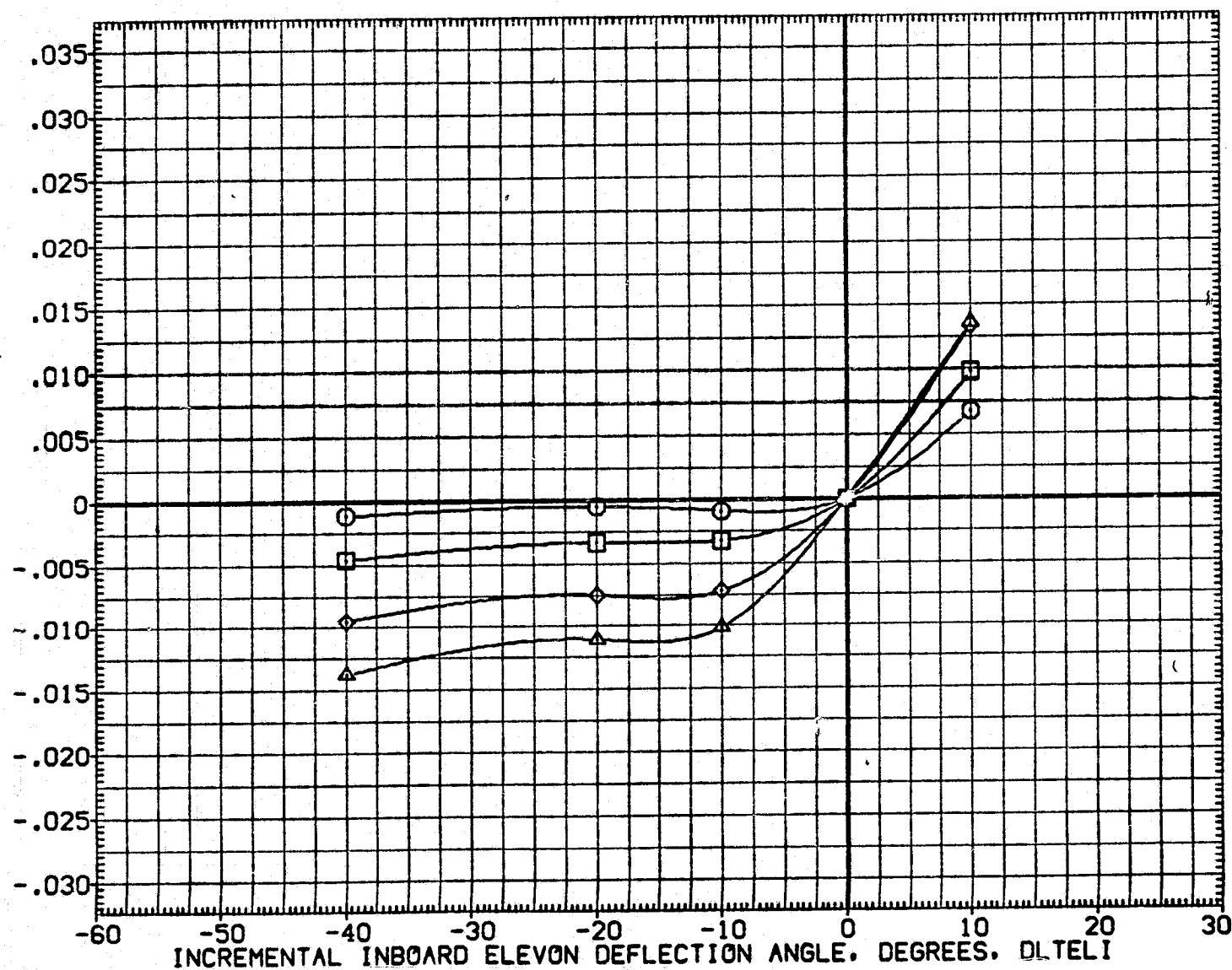


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	-3.000		5.000 DLTELG	.000 DATASET	SREF 2690.0000 90.FT.
□	.000	DLTERO	.000 BETA	.000 DTV030	LREF 474.8100 IN.
◇	5.000	BOFLAP	.000 RUDDER	.000 DTV039	BREF 936.6800 IN.
△	10.000			.000 DTV040	XMRP 1076.6800 IN.X9
					YMRP .0000 IN.Y9
					ZMRP 375.0000 IN.Z9
					SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.) DLTCMF

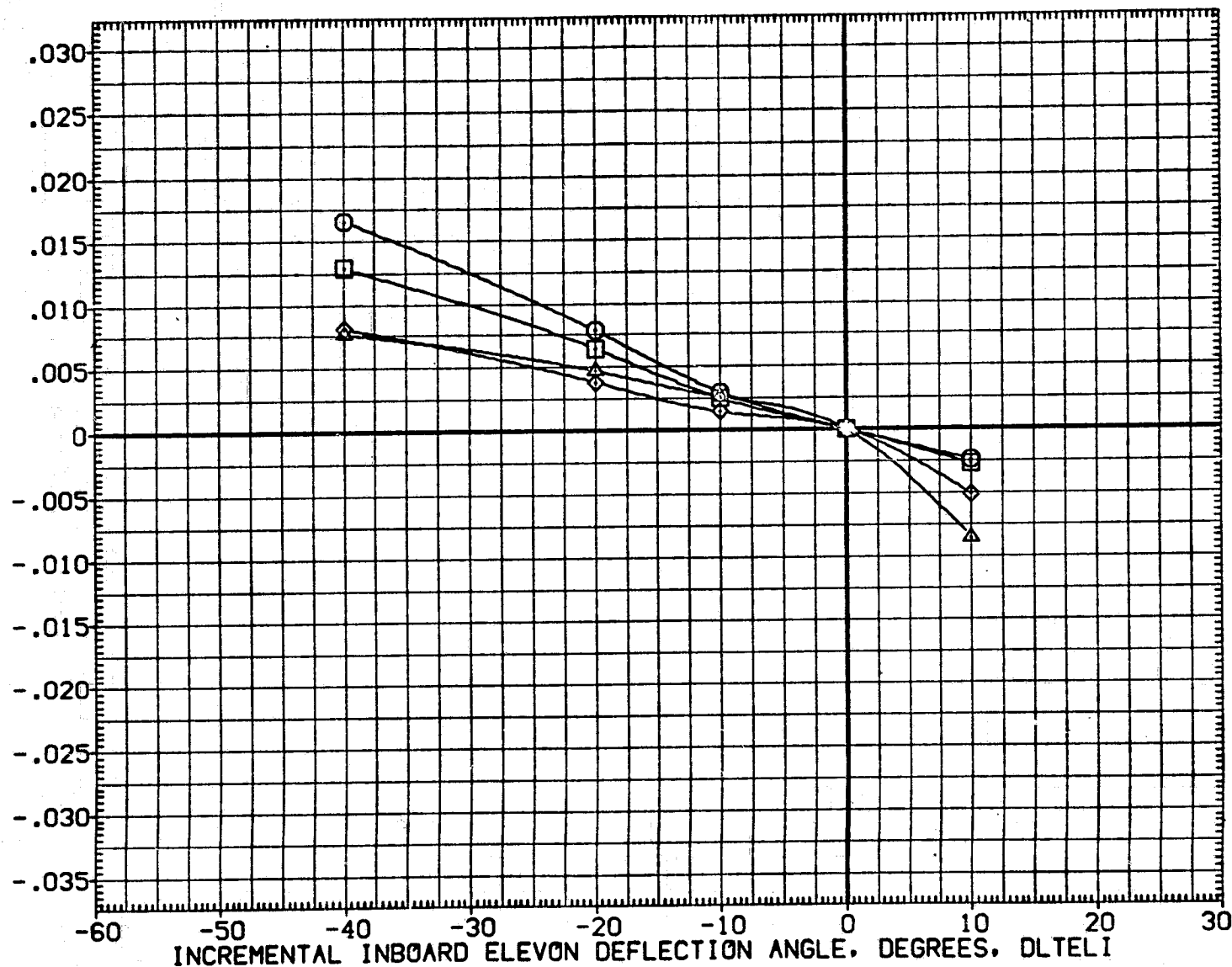


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DTTELO	.000	DATASET	DTTELI	DATASET	DTTELI	SREF	2690.0000	SQ.FT.
○	15.000									LREF	474.8100	IN.
□	20.000	DLTERO	.000	BETA	.000	DTV030	-40.000	DTV034	-20.000	BREF	936.6800	IN.
◇	25.000	BOFLAP	.000	RUDDER	.000	DTV039	-10.000	DTV006	.000	XMRP	1076.6800	IN.X0
△	27.000					DTV040	10.000			YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.) DLTCMF

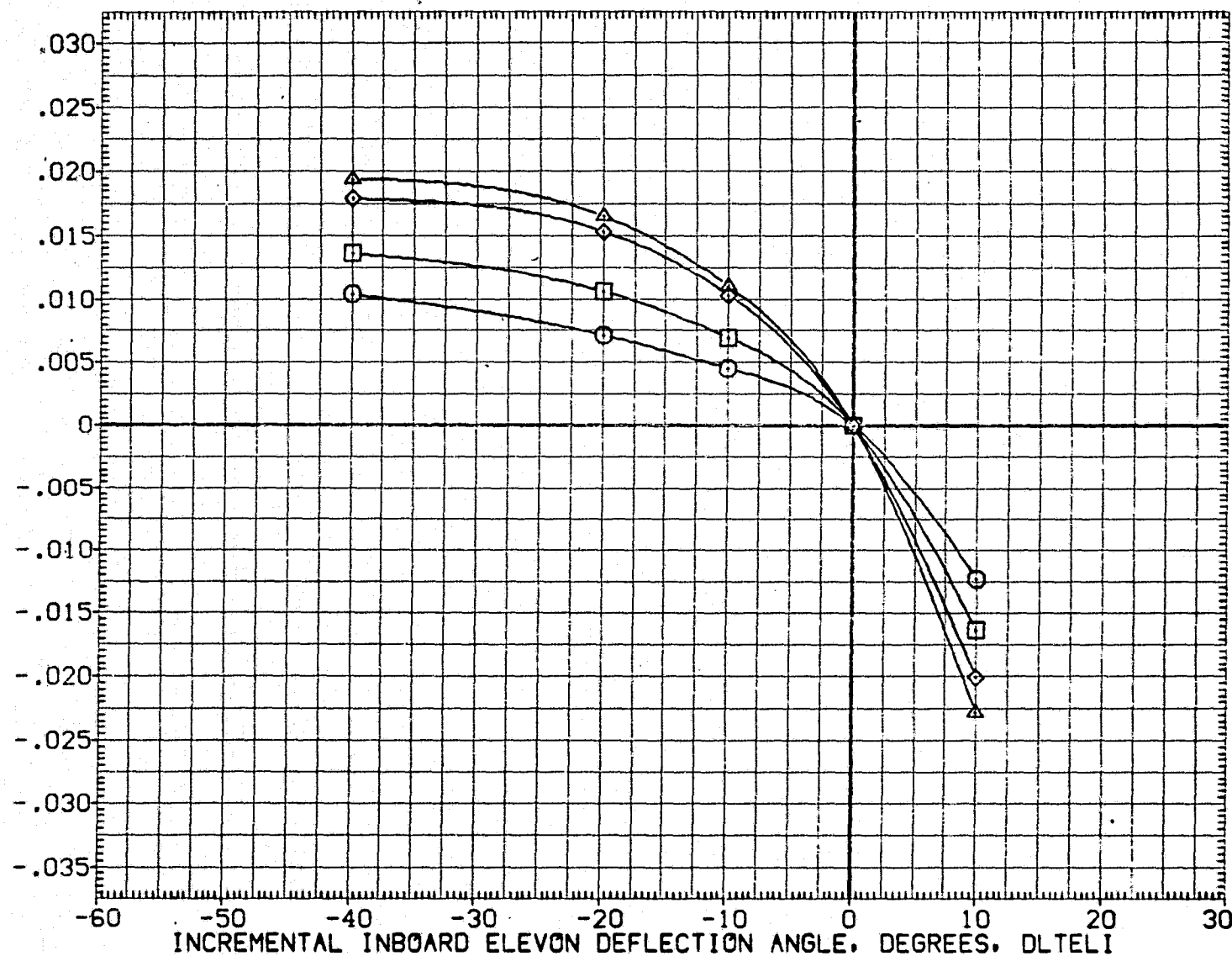


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV030)

SYMBOL
○
□
◇
△

ALPHA
-3.000
.000
5.000
10.000

MACH
DLTER0
BDFLAP

PARAMETRIC VALUES
5.000 DLTEL0
.000 BETA
.000 RUDDER

.000 DATASET
.000 DTV030
.000 DTV039
.000 DTV040

DATA SOURCE
DLTEL1
-40.000
-10.000
10.000

DATASET
DTV034
DTV006

DLTEL1
-20.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.) DLTCMA



FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	15.000		DLTELO .000	DATASET DLTCLI	SREF 2690.0000 SQ.FT.
□	20.000	DLTERO	.000 BETA	.000 DTV030 -40.000	LREF 474.8100 IN.
◇	25.000	BOFLAP	.000 RUDDER	.000 DTV039 -10.000	BREF 936.6800 IN.
△	27.000			.000 DTV04C 10.000	XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.) DLICMA

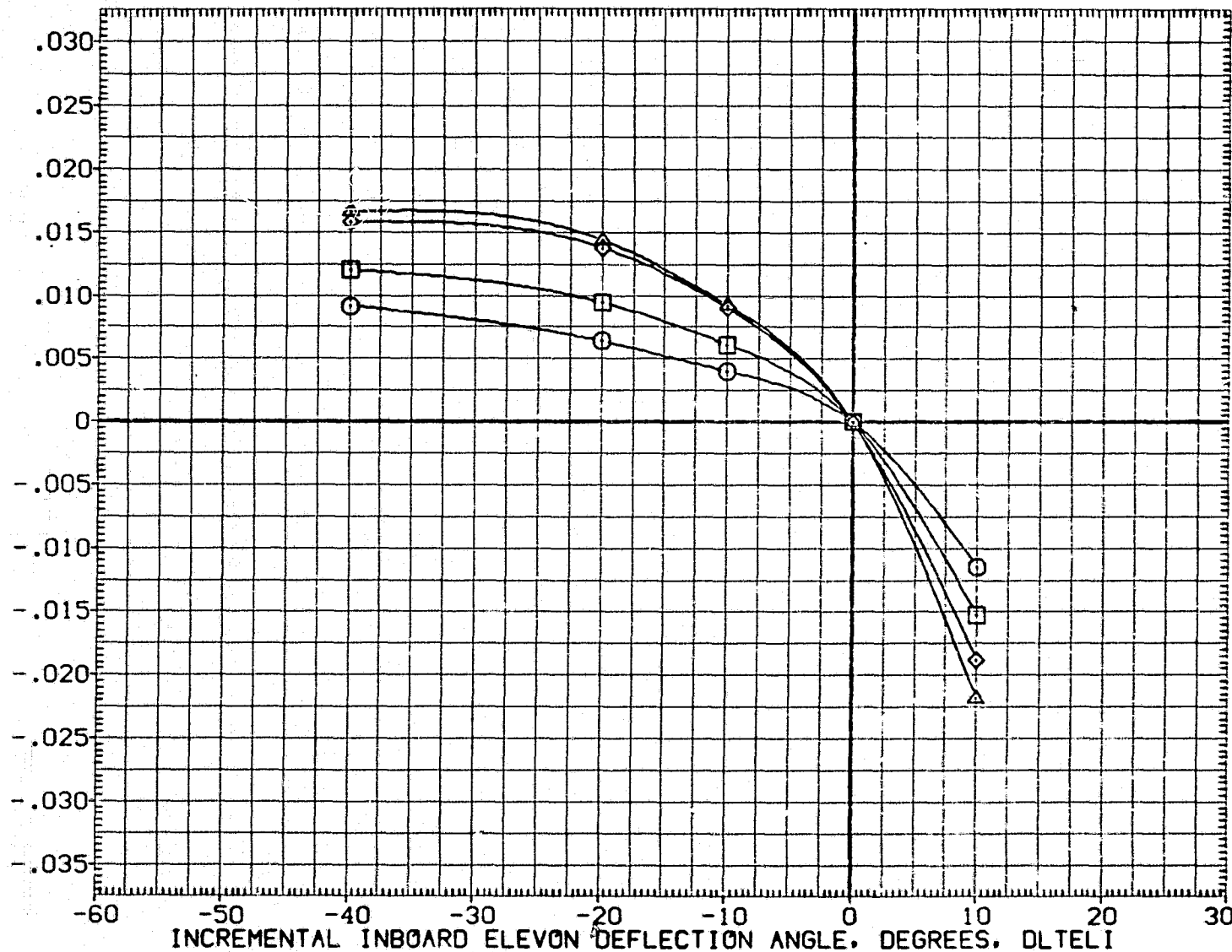


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	-3.000		5.000 DLTEL0	.000 DATASET	SREF 2690.0000 SQ.FT.
□	.000	DLTER0	.000 BETA	.000 DTV030	LREF 474.8100 IN.
◇	5.000	BDFLAP	.000 RUDDER	.000 DTV039	BREF 936.6800 IN.
△	10.000			.000 DTV040	XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL AXIAL FORCE COEFFICIENT, DLTC

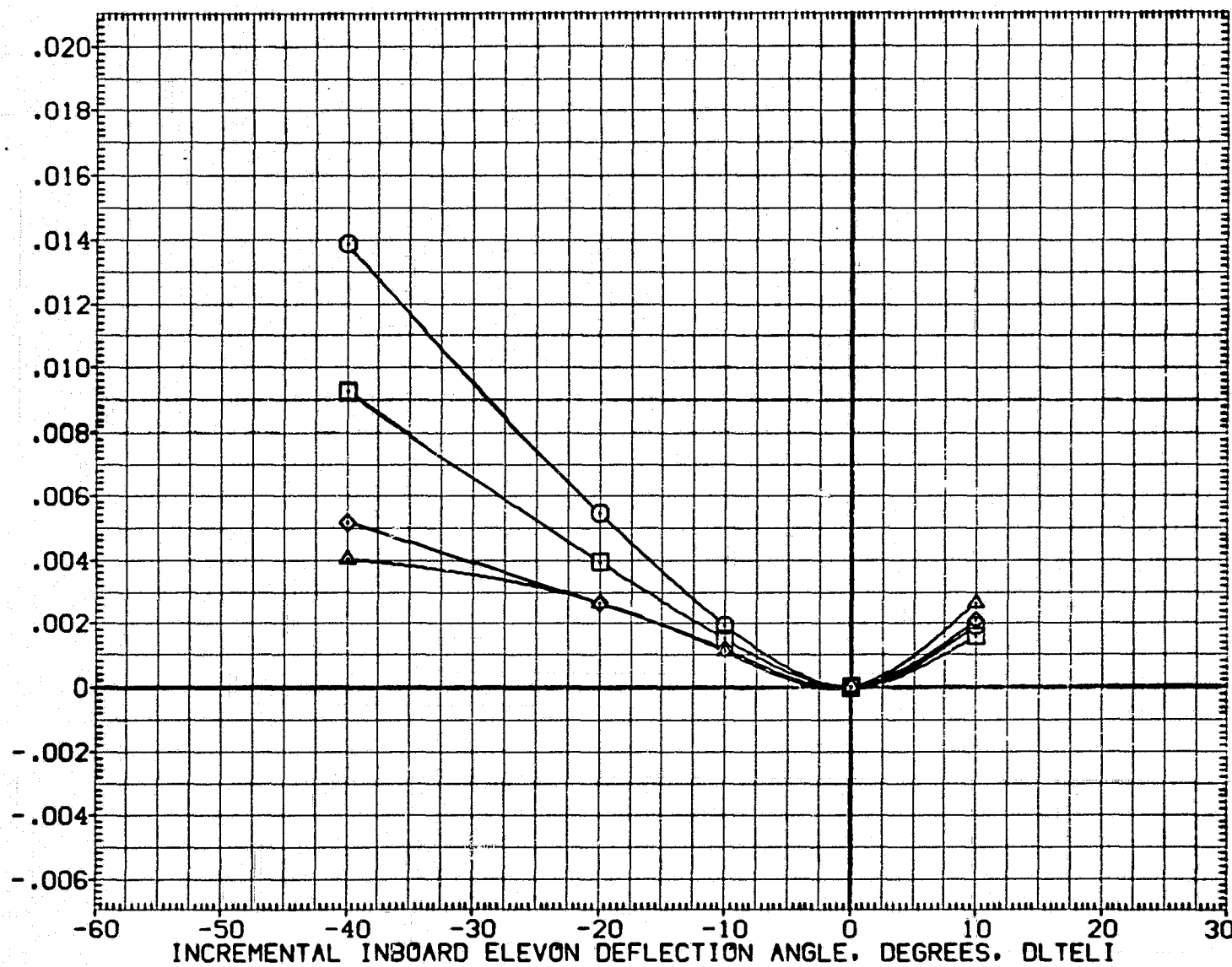


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV030)

SYMBOL

○
□
◇
△

ALPHA

15.000

MACH

20.000

DLTERO

25.000

BDFLAP

27.000

PARAMETRIC VALUES

5.000 DLTEL0

.000 BETA

.000 RUDDER

.000

.000

.000

DATA SOURCE

DLTEL1

-40.000

-10.000

10.000

DTV030

DTV039

DTV040

DATASET

DTV034

DTV006

DTV006

DTV006

DTV006

DLTEL1

-20.000

.000

.000

.000

.000

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8100

BREF 936.6800

XMRP 1076.6800

YMRP .0000

ZMRP 375.0000

SCALE .0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL AXIAL FORCE COEFFICIENT, DLICA

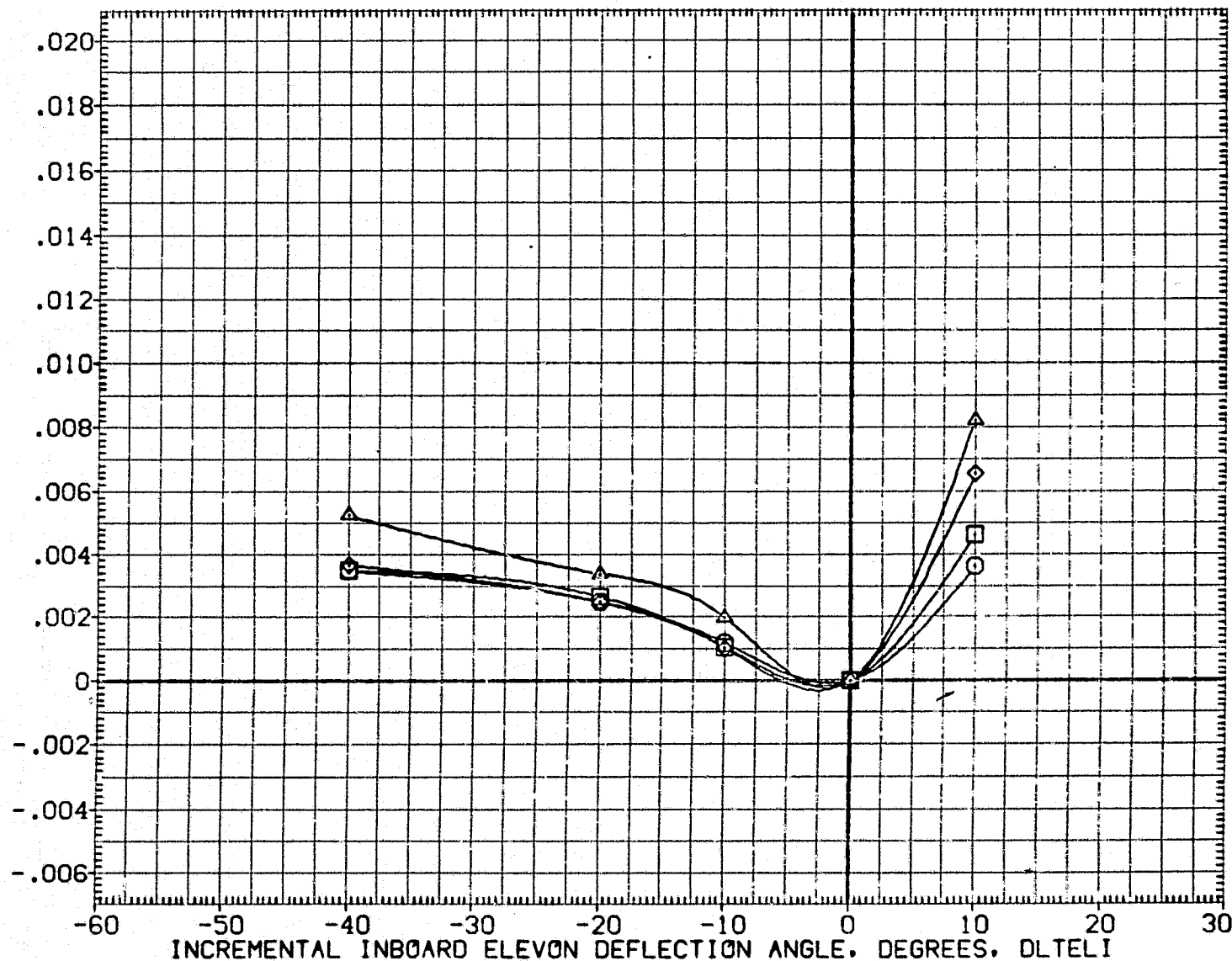


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	-3.000		5.000 DLTEL0	.000 DATASET	SREF 2690.0000 SQ.FT.
□	.000	DLTER0	.000 BETA	.000 DTV030	LREF 474.8100 IN.
◇	5.000	BDFLAP	.000 RUDDER	.000 DTV039	BREF 936.6800 IN.
△	10.000			.000 DTV040	XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCAP

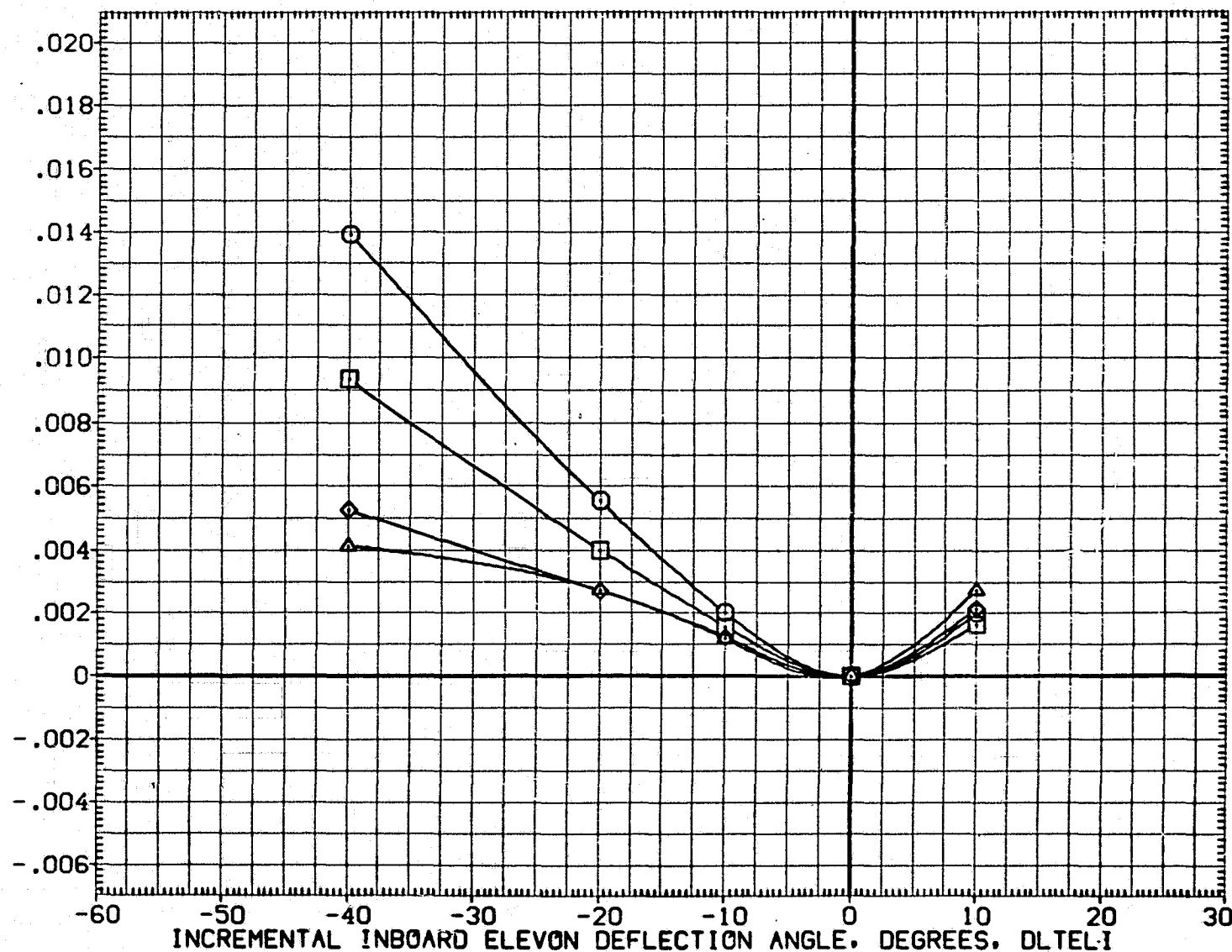


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV030)

SYMBOL

○
□
◇
△

ALPHA

15.000

MACH

20.000

DLTERO

25.000

BOFLAP

27.000

PARAMETRIC VALUES

5.000

DLTELO

.000

BETA

.000

RUDDER

.000

.000 DATASET

.000 DTV030

.000 DTV039

.000 DTV040

DATA SOURCE

DLTELI

-40.000

-10.000

10.000

DATASET

DTV034

DTV006

DLTELI

-20.000

.000

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLICAF

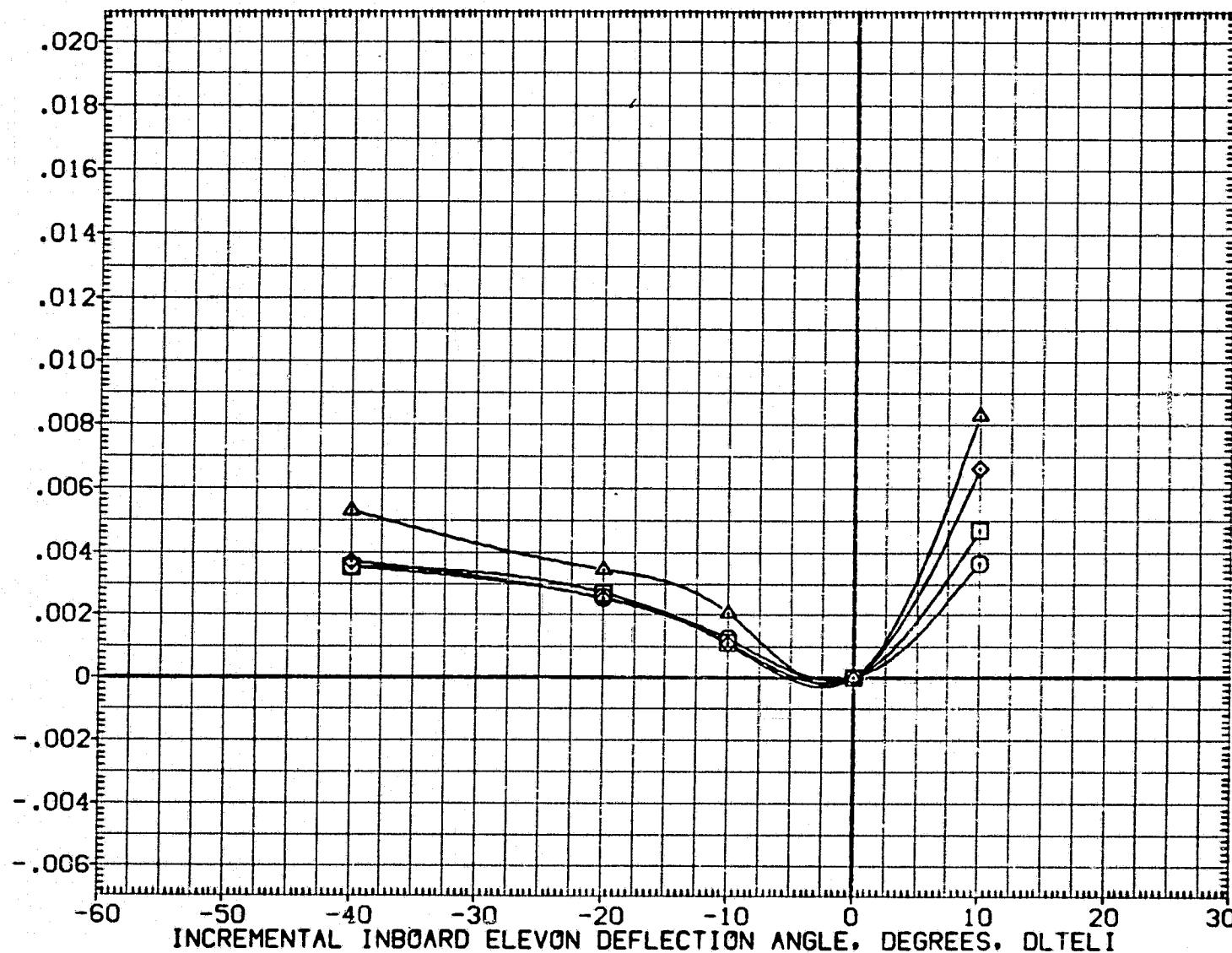


FIG. 11 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A115		B26 C9 E43 F8 M16 N28 R5 V8 W116						(ATV030)			
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	-2.000		5.000	BETA	.000	DATASET	ELV-LI		SREF	2690.0000	50.FT.
□	.000	ELV-LQ	.000	ELV-RQ	.000	ATV030	-40.000	ATV034	LREF	474.8100	IN.
◇	2.000	BOFLAP	.000	RUDDER	.000	ATV039	-10.000	ATV006	BREF	936.6800	IN.
△	4.000					ATV040	10.000		XMRP	1076.6800	IN.X0
									YMRP	.0000	IN.Y0
									ZMRP	375.0000	IN.Z0
									SCALE	.0150	

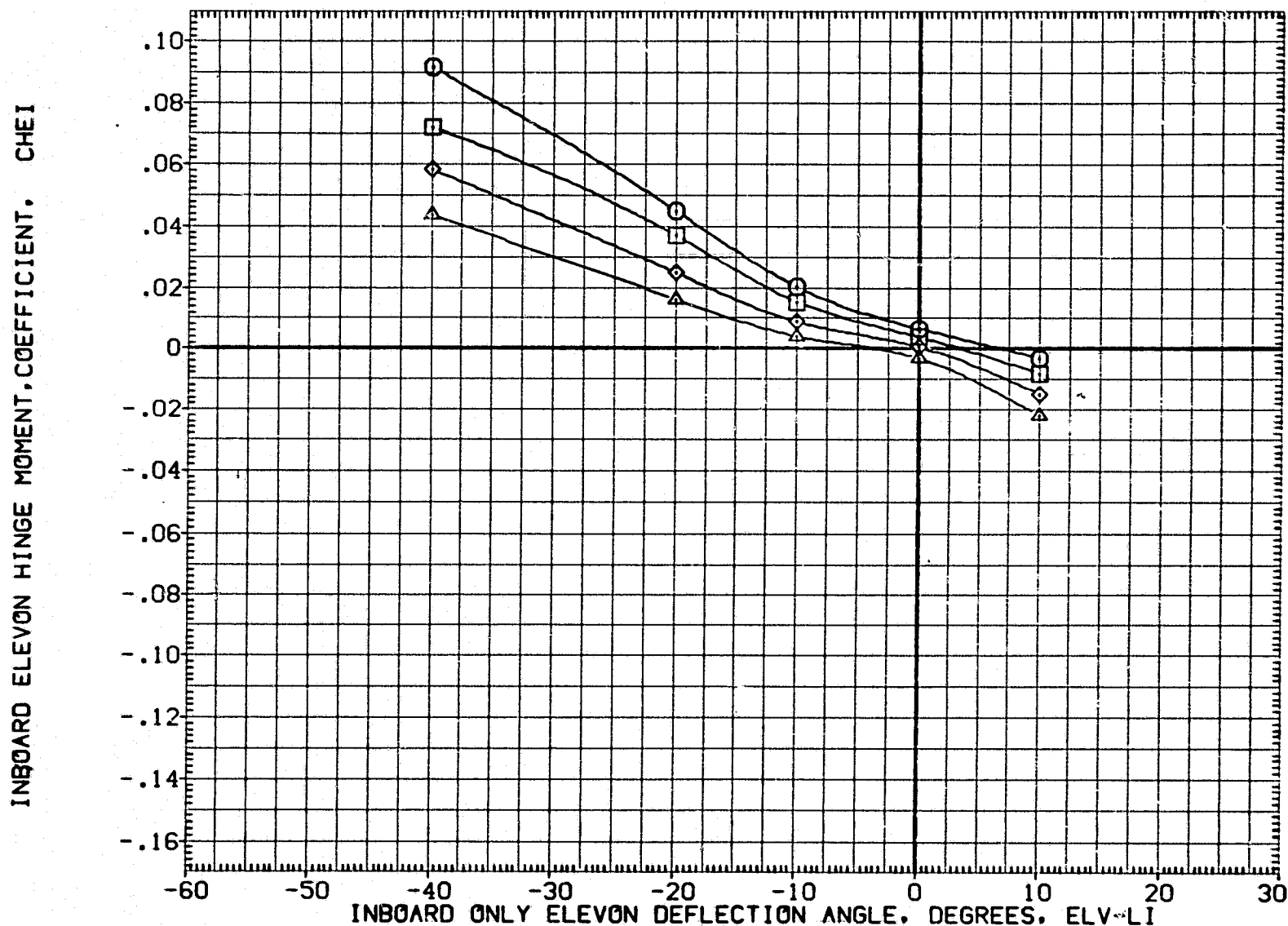


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	ELV-LI	DATA SOURCE	ELV-LI	REFERENCE INFORMATION	SQ.FT.
○	6.000		5.000		.000	ATV030	-40.000	ATV034	2690.0000	IN.
□	8.000	ELV-L0	.000	ELV-R0	.000	ATV039	-10.000	ATV006	474.8100	IN.
◇	10.000	BOFLAP	.000	RUDDER	.000	ATV040	10.000		936.6800	IN.X0
△	12.000								1076.6800	IN.Y0
									375.0000	IN.Z0
									SCALE	.0150

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

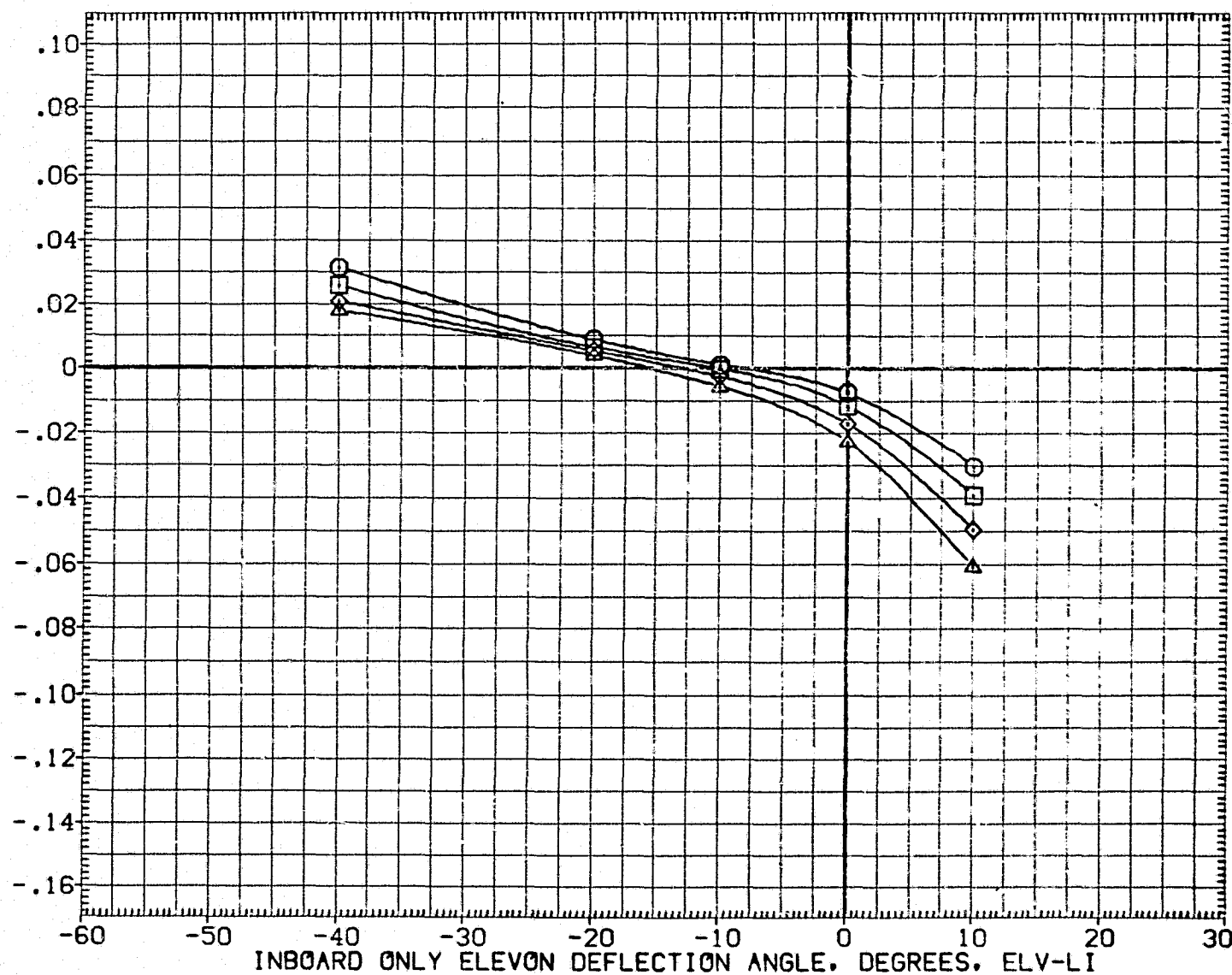


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL
 ○
 □
 ◇
 △

ALPHA
 14.000
 16.000
 18.000
 20.000

MACH
 ELV-L0
 BOFLAP

PARAMETRIC VALUES
 5.000 BETA
 .000 ELV-R0
 .000 RUDDER

.000 DATASET
 .000 ATV030
 .000 ATV039
 .000 ATV040

DATA SOURCE
 ELV-L1
 -40.000
 -10.000
 10.000

DATASET
 ATV034
 ATV006

ELV-L1
 -20.000
 .000

SREF
 LREF
 BREF
 XMRP
 YMRP
 ZMRP
 SCALE

REFERENCE INFORMATION
 2690.0000 SQ.FT.
 474.8100 IN.
 936.6800 IN.
 1076.6800 IN.X0
 .0000 IN.Y0
 375.0000 IN.Z0
 .0150

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

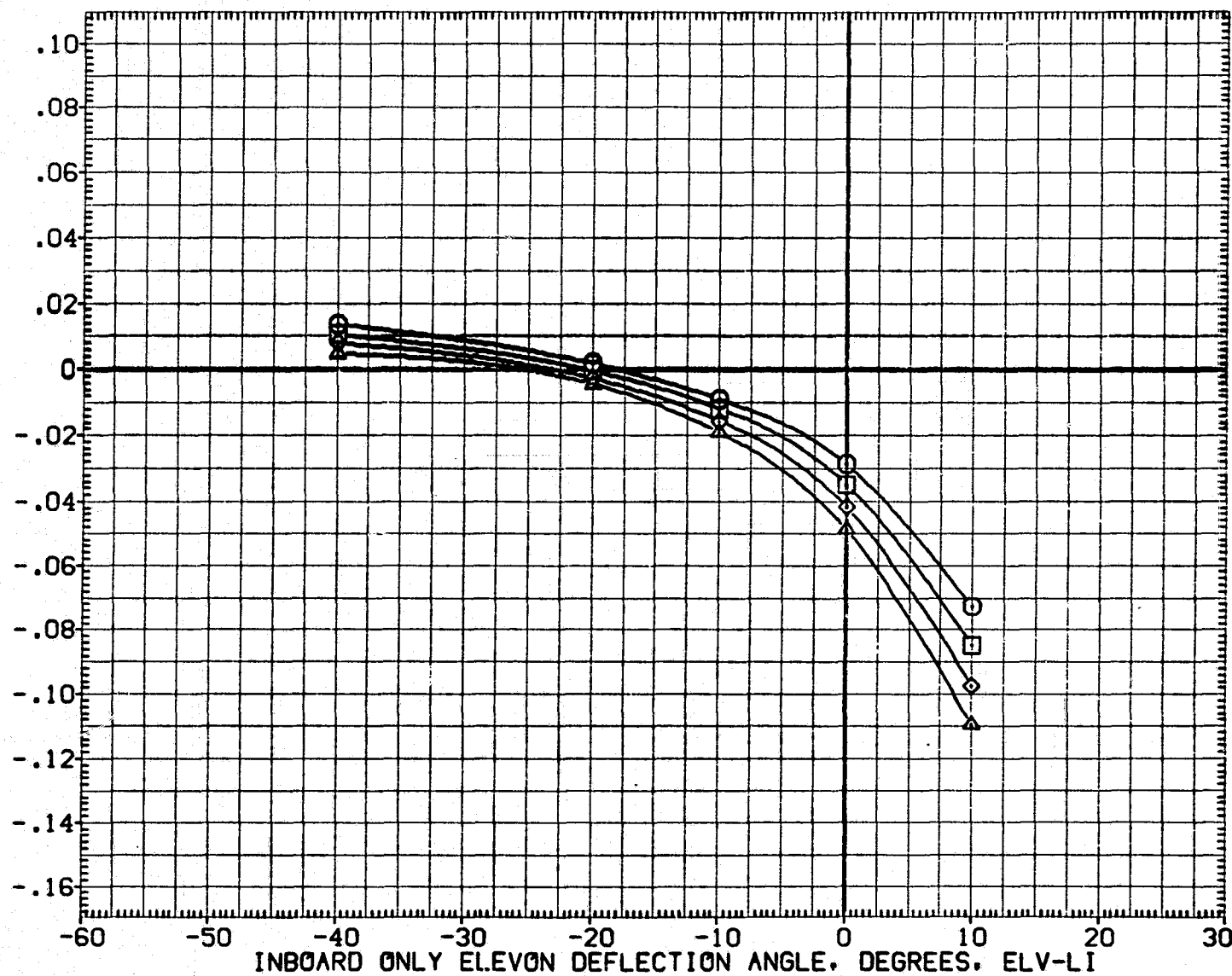


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL

○
□
◇

ALPHA

22.000

MACH

24.000

26.000

PARAMETRIC VALUES

5.000

BETA

.000

.000

.000

ELV-R0

RUDDER

.000 DATASET

.000 ATV030

.000 ATV039

.000 ATV040

DATA SOURCE

ELV-L1

-40.000

-10.000

10.000

DATASET

ATV034

ATV006

ELV-L1

-20.000

.000

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8100

BREF 936.6800

XMRP 1076.6800

YMRP .0000

ZMRP 375.0000

SCALE .6150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI



FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000 DATASET	DATA SOURCE	ELV-LI	DATASET	ELV-LI	SREF	2690.0000	SQ.FT.
○	-2.000		5.000		.000	ATV030	-40.000	ATV034	-20.000	LREF	474.8100	IN.
□	.000	ELV-L0	.000	ELV-R0	.000	ATV039	-10.000	ATV006	.000	BREF	936.6800	IN.
◇	2.000	BDFLAP	.000	RUDDER	.000	ATV040	10.000			XMRP	1076.6800	IN.X0
△	4.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

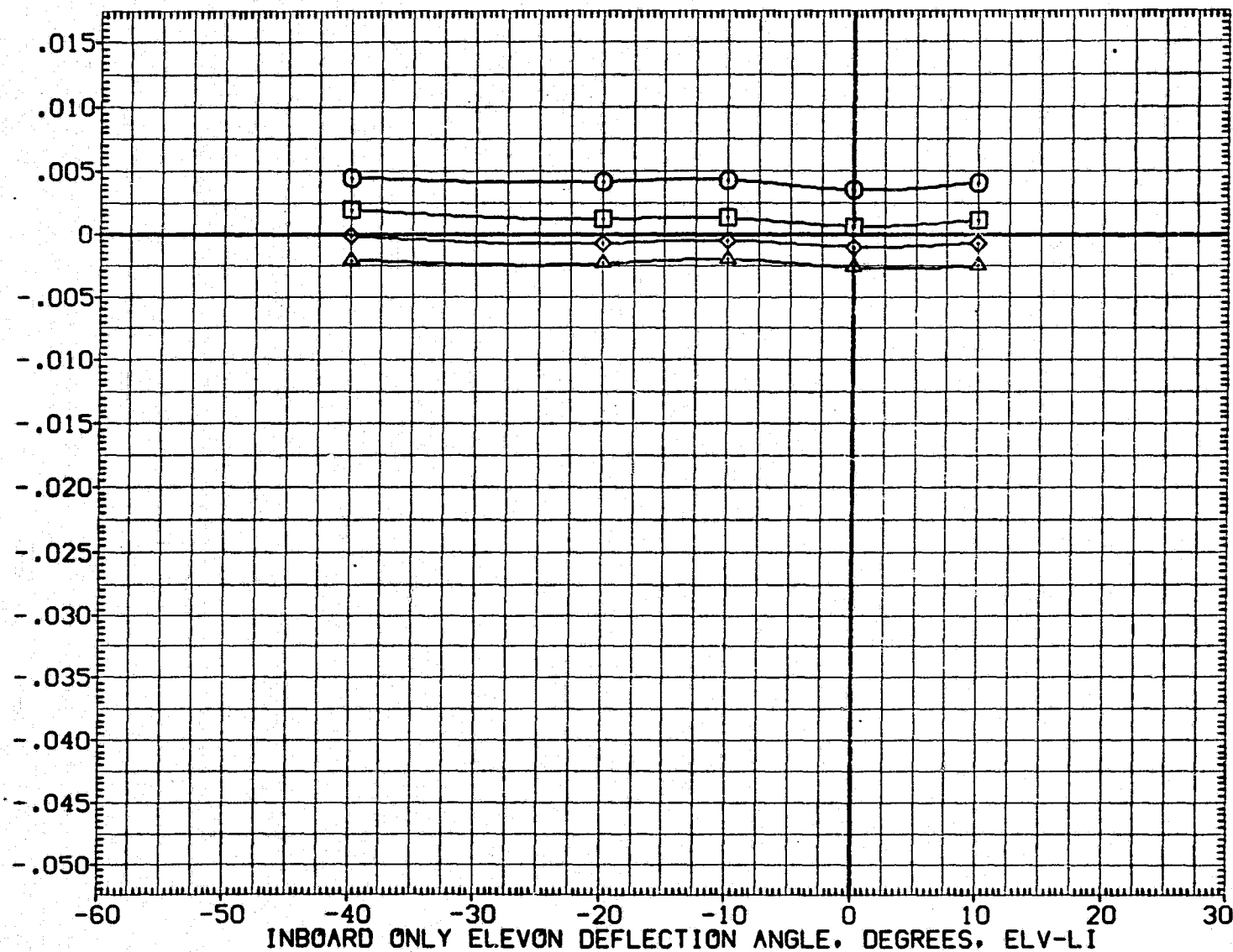


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL

○
□
◇
△

ALPHA

6.000
8.000
10.000
12.000

MACH

ELV-LI
BOFLAP

PARAMETRIC VALUES

5.000 BETA
.000 ELV-RD
.000 RUDDER

.000 DATASET
.000 ATV030
.000 ATV039
.000 ATV040

DATA SOURCE

ELV-LI
-40.000
-10.000
10.000

DATASET
ATV034
ATV006

ELV-LI
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

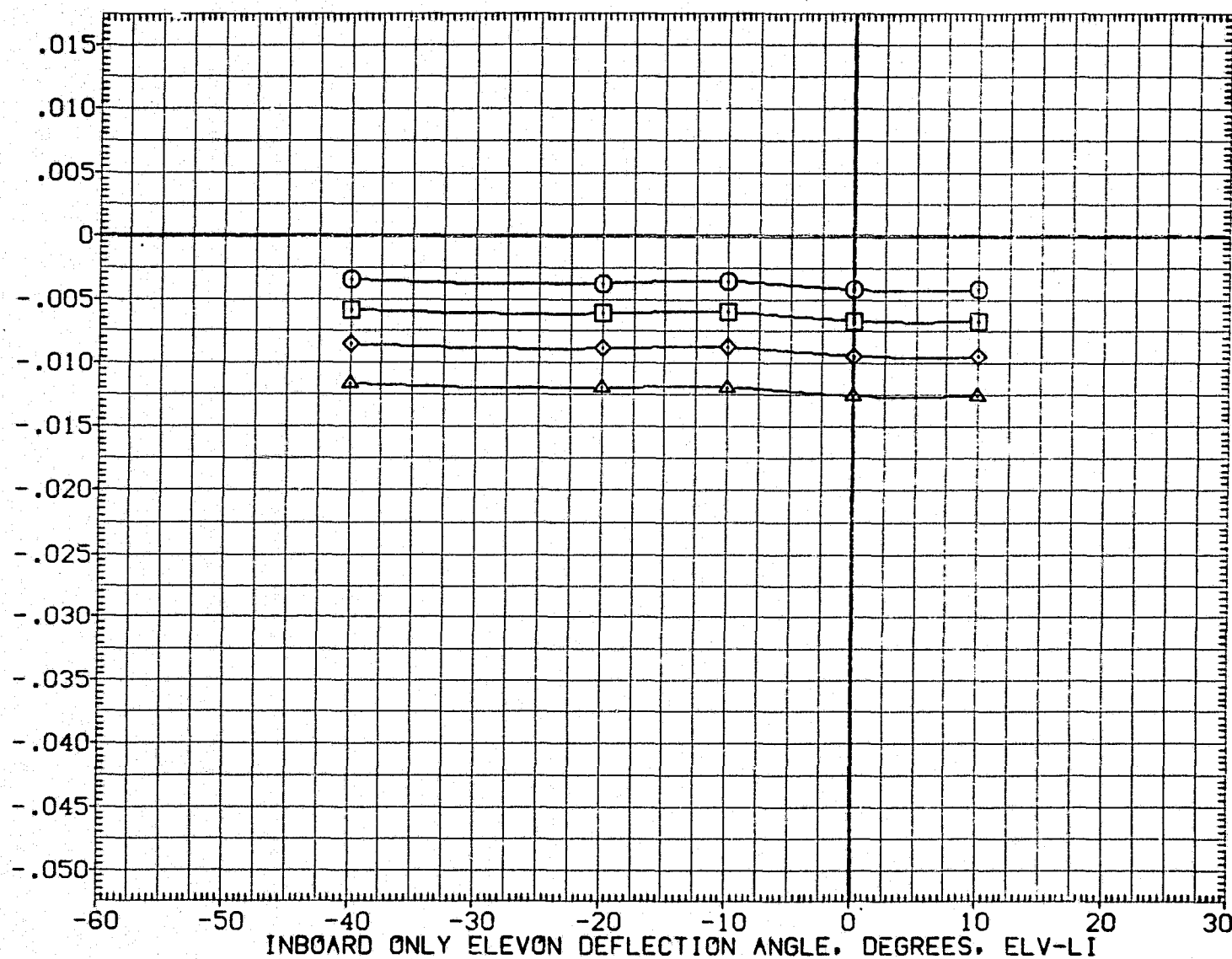


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	ELV-LI	REFERENCE INFORMATION	SO.FT.
○	14.000		5.000		.000 DATASET		SREF	2690.0000
□	16.000	ELV-L0	.000	ELV-R0	.000 ATV030	-40.000	LREF	474.8100
◇	18.000	BDFLAP	.000	RUDDER	.000 ATV039	-10.000	BREF	936.6800
△	20.000				.000 ATV040	10.000	XMRP	1076.6800
							YMRP	.0000
							ZMRP	375.0000
							SCALE	.0150

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

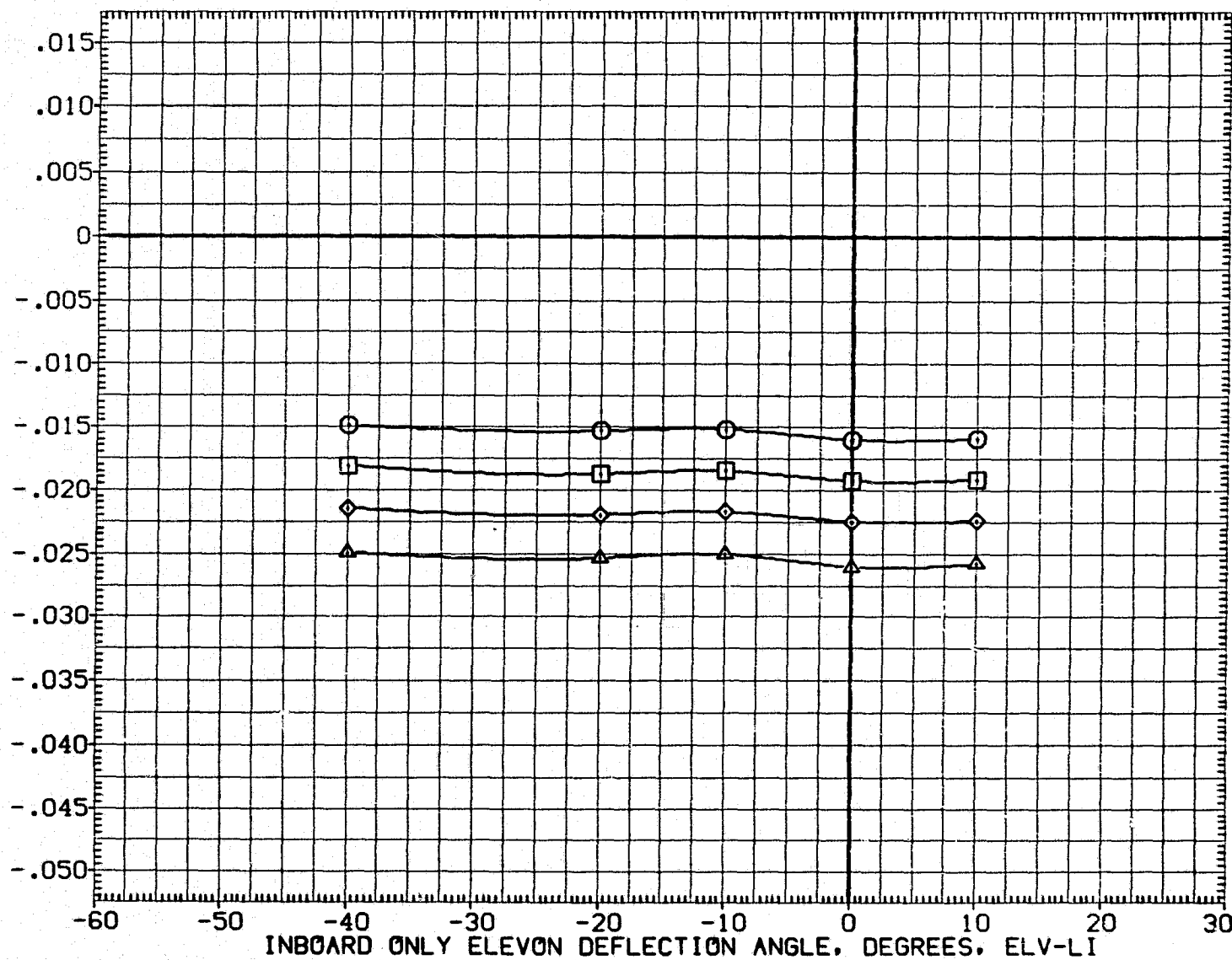


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-LI	DATASET	ELV-LI	SREF	2690.0000	50.FT.
○	22.000		5.000	BETA	.000	ATV030	-40.000	ATV034	-20.000	LREF	474.8100	IN.
□	24.000	ELV-L0	.000	ELV-R0	.000	ATV039	-10.000	ATV006	.000	BREF	936.6800	IN.
◇	26.000	BDFLAP	.000	RUDDER	.000	ATV040	10.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

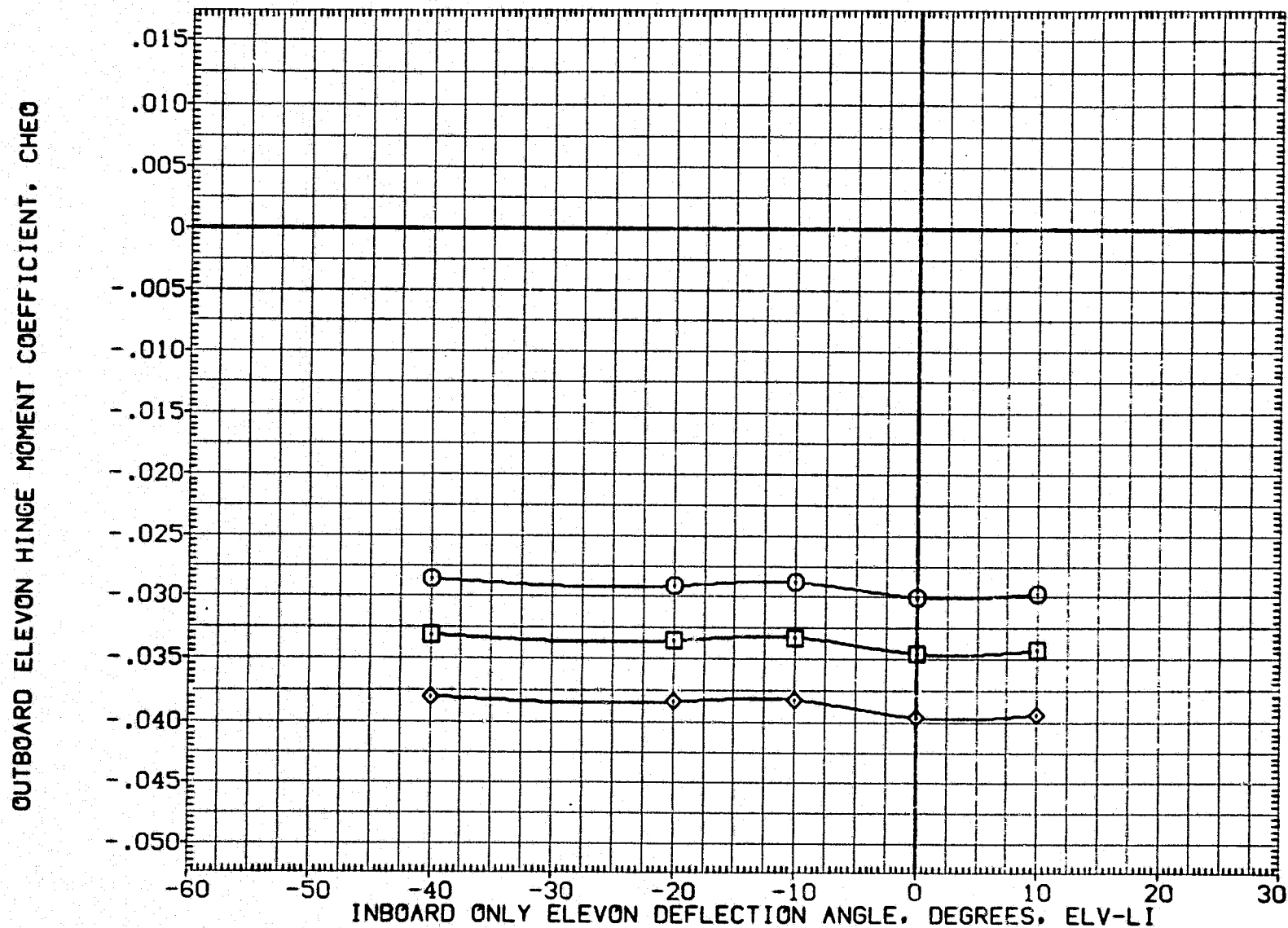


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL

○
□
◇
△

ALPHA

-2.000
.000
2.000
4.000

MACH

ELV-L0
BOFLAP

PARAMETRIC VALUES

5.000
.000
.000

BETA

ELV-R0
RUDDER

.000

DATASET

ATV030
ATV039
ATV040

DATA SOURCE

ELV-L1

-40.000
-10.000
10.000

DATASET

ATV034
ATV006

ELV-L1

-20.000
.000

SREF

LREF
BREF
XMRP
YMRP
ZMRP
SCALE

REFERENCE INFORMATION

2690.0000 SQ.FT.
474.8100 IN.
936.6800 IN.
1076.6800 IN.X0
.0000 IN.Y0
375.0000 IN.Z0
.0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

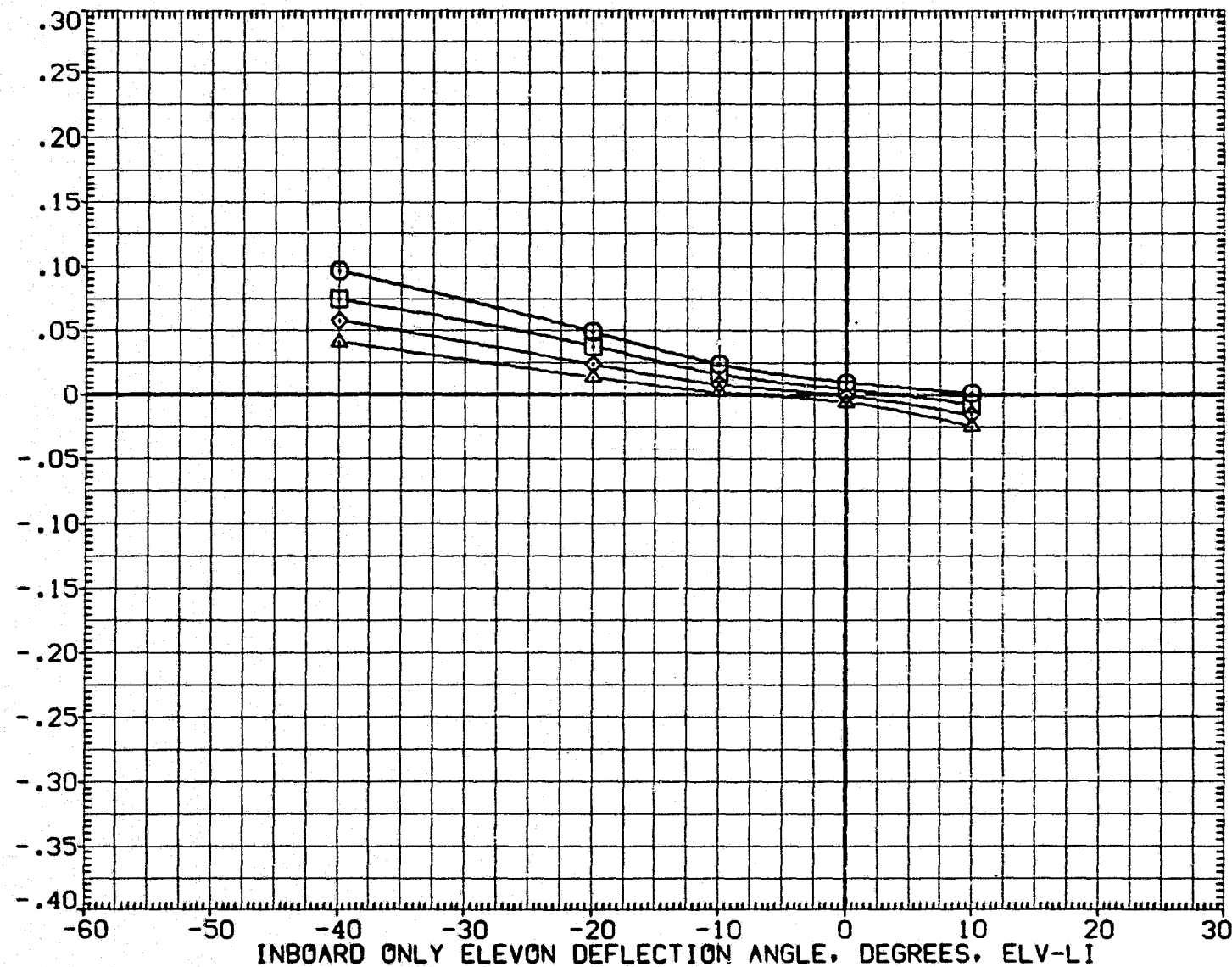


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	6.000	MACH	5.000	BETA	.000	DATASET	ELV-LI	DATASET	ELV-LI	SREF	2690.0000	50.FT.
□	8.000	ELV-L0	.000	ELV-R0	.000	ATV030	-40.000	ATV034	-20.000	LREF	474.8100	IN.
◇	10.000	BDFLAP	.000	RUDDER	.000	ATV039	-10.000	ATV006	.000	BREF	936.6800	IN.
△	12.000					ATV040	10.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

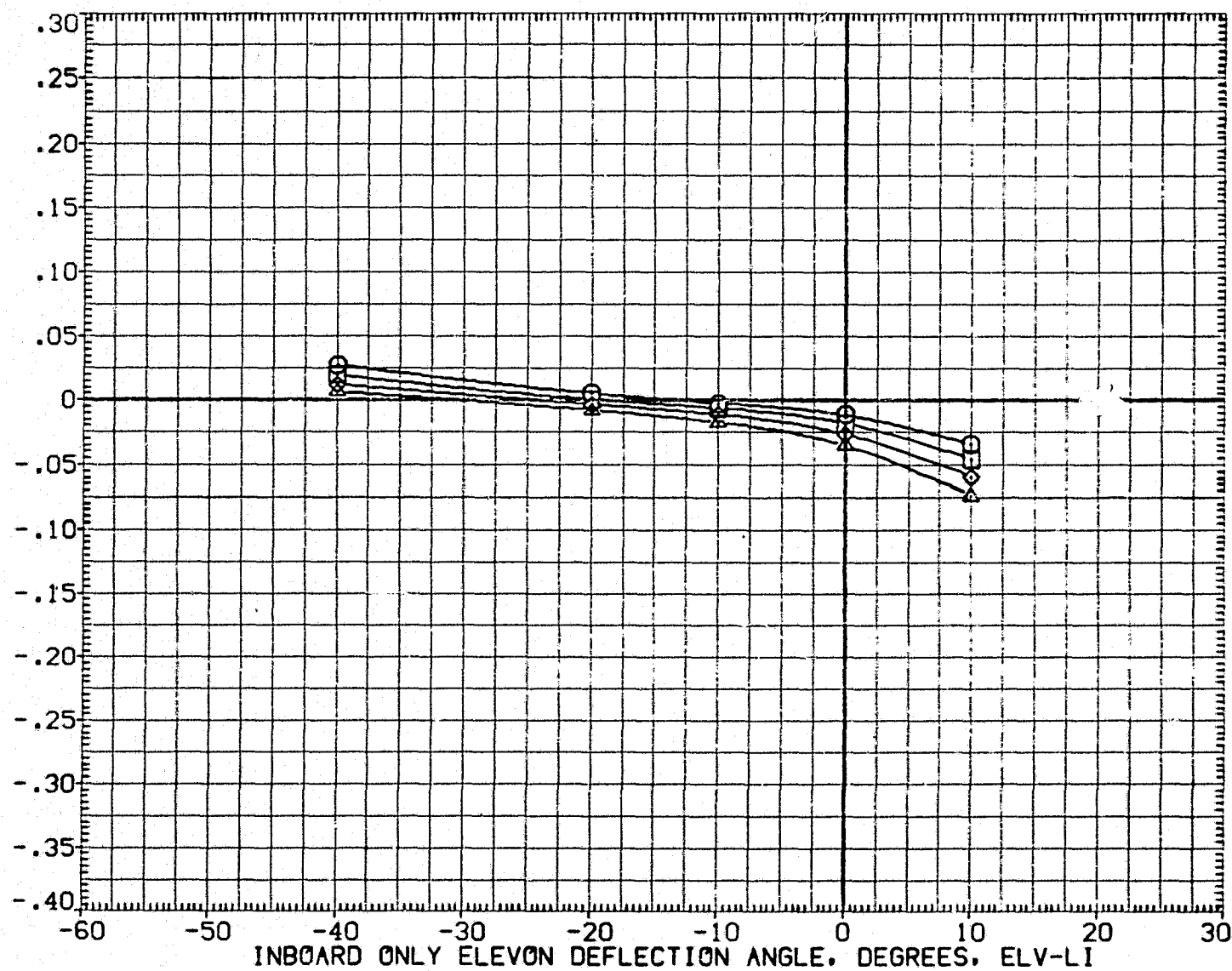


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL

○
□
◇
△

ALPHA

14.000
16.000
18.000
20.000

MACH
ELV-LI
BDFLAP

PARAMETRIC VALUES

5.000 BETA
.000 ELV-RO
.000 RUDDER

.000 DATASET
.000 ATV030
.000 ATV039
.000 ATV040

DATA SOURCE

ELV-LI
-40.000
-10.000
10.000

DATASET
ATV034
ATV006

ELV-LI
-20.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

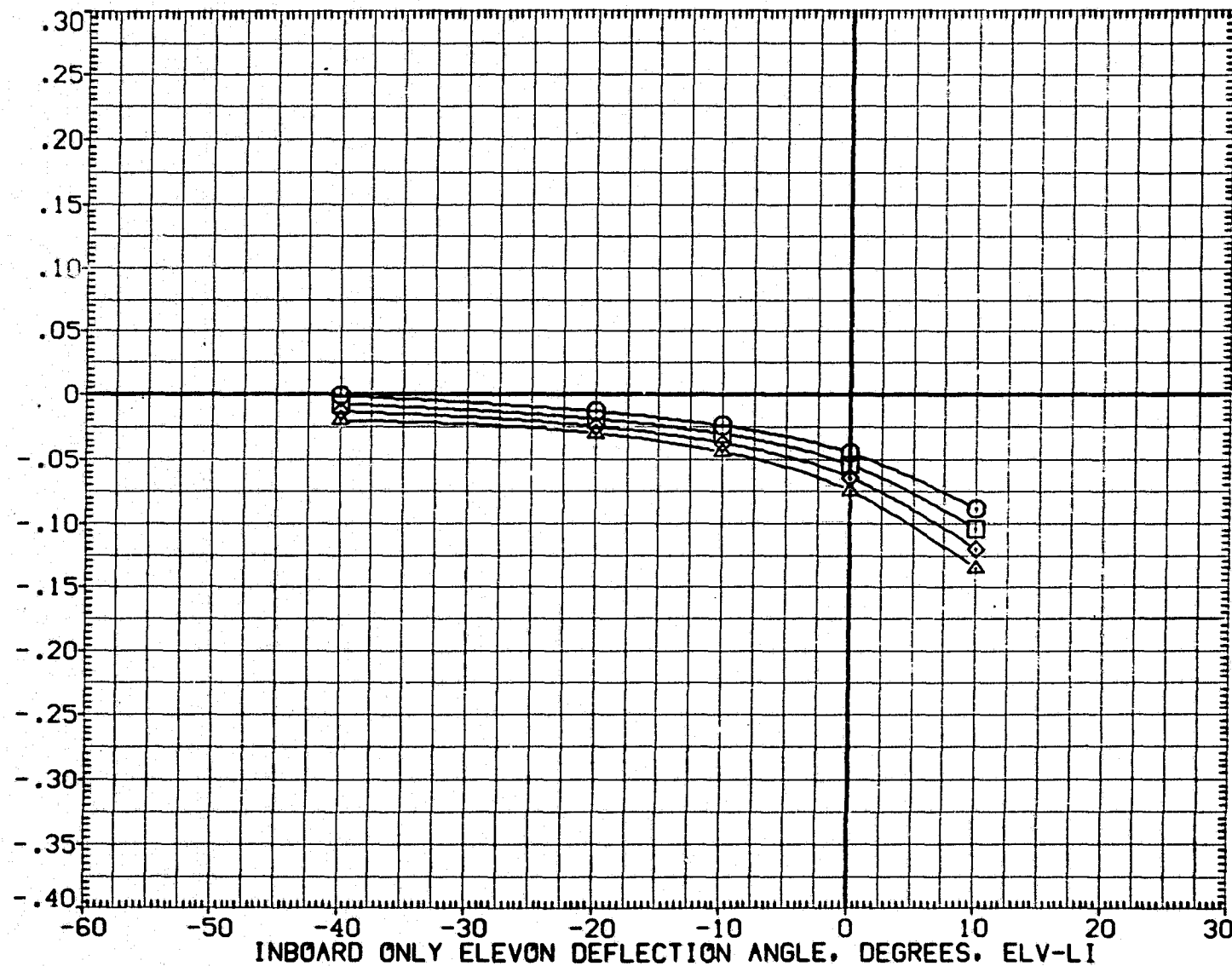


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV030)

SYMBOL

○
□
◇

ALPHA

22.000

MACH

24.000

26.000

ELV-L0

BOFLAP

PARAMETRIC VALUES

5.000

BETA

.000

ELV-R0

.000

RUDDER

.000

.000 DATASET

.000 ATV030

.000 ATV039

.000 ATV040

DATA SOURCE

ELV-L1

-40.000

-10.000

10.000

DATASET

ATV034

ATV006

ELV-L1

-20.000

.000

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

REFERENCE INFORMATION

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHE1 + CHE0)

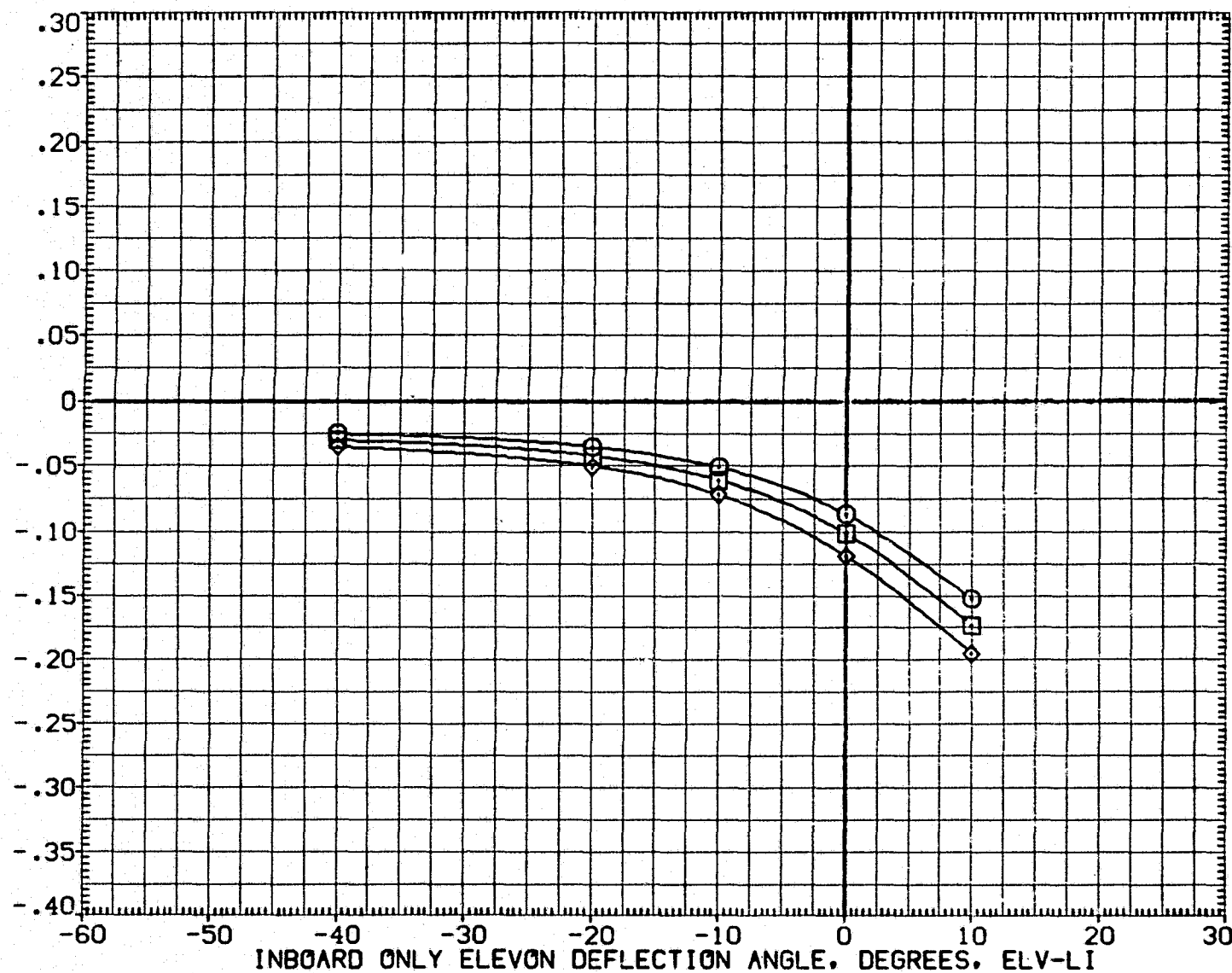


FIG. 12 ELEVON HINGE MOMENTS - INBOARD ELEVONS ONLY DEFLECTED

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO32)	△ OA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	-20.000	SREF	2690.0000	SG.FT.
(BTVO24)	◇ OA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(BTVO06)	○ OA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
(BTVO21)	□ OA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

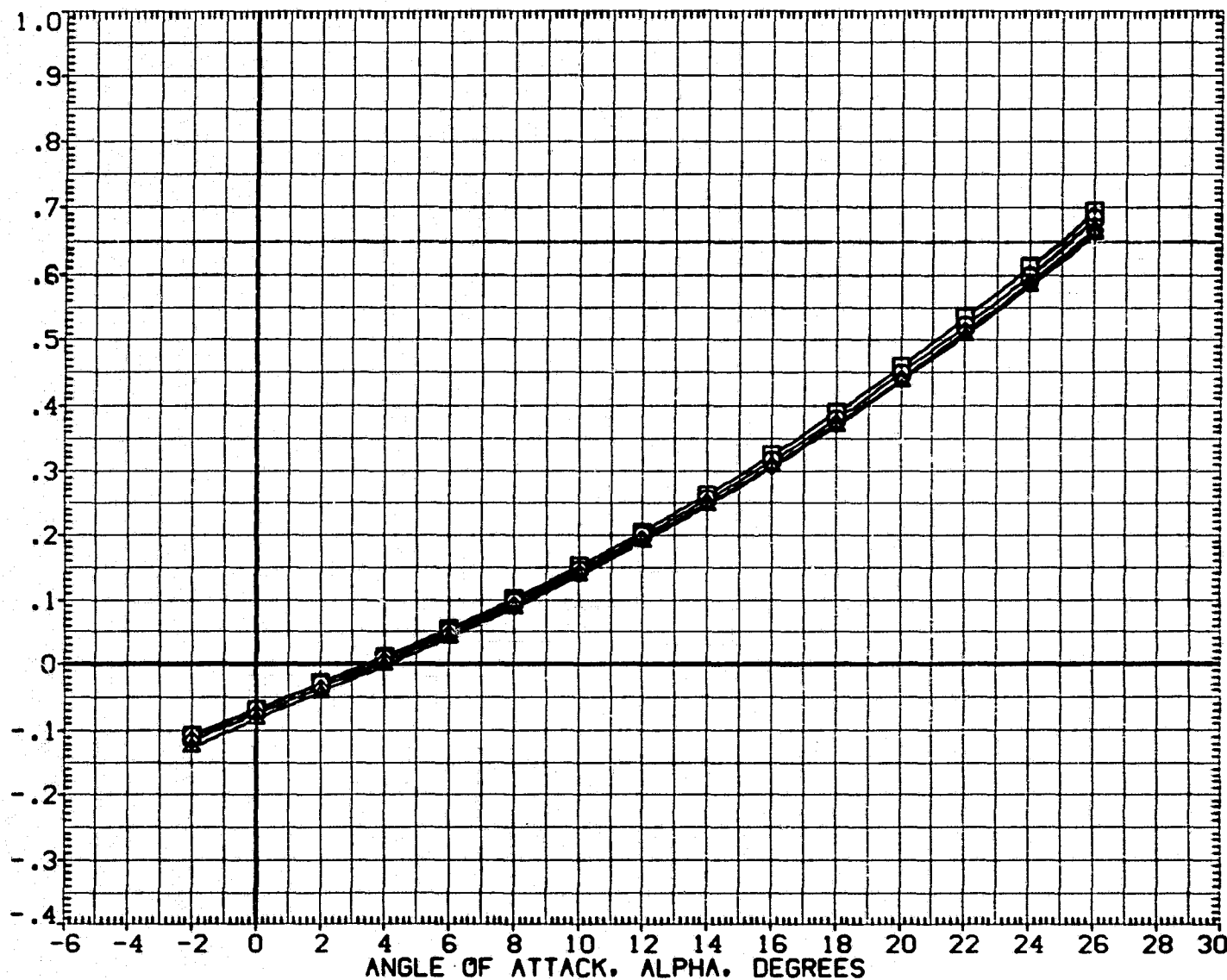


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.). CLMFW

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO32)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	-20.000	SREF	2690.0000	50. FT.
(BTVO24)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(BTVO06)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
(BTVO21)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800	IN. X0
						YMRP	.0000	IN. Y0
						ZMRP	375.0000	IN. Z0
						SCALE	.0150	

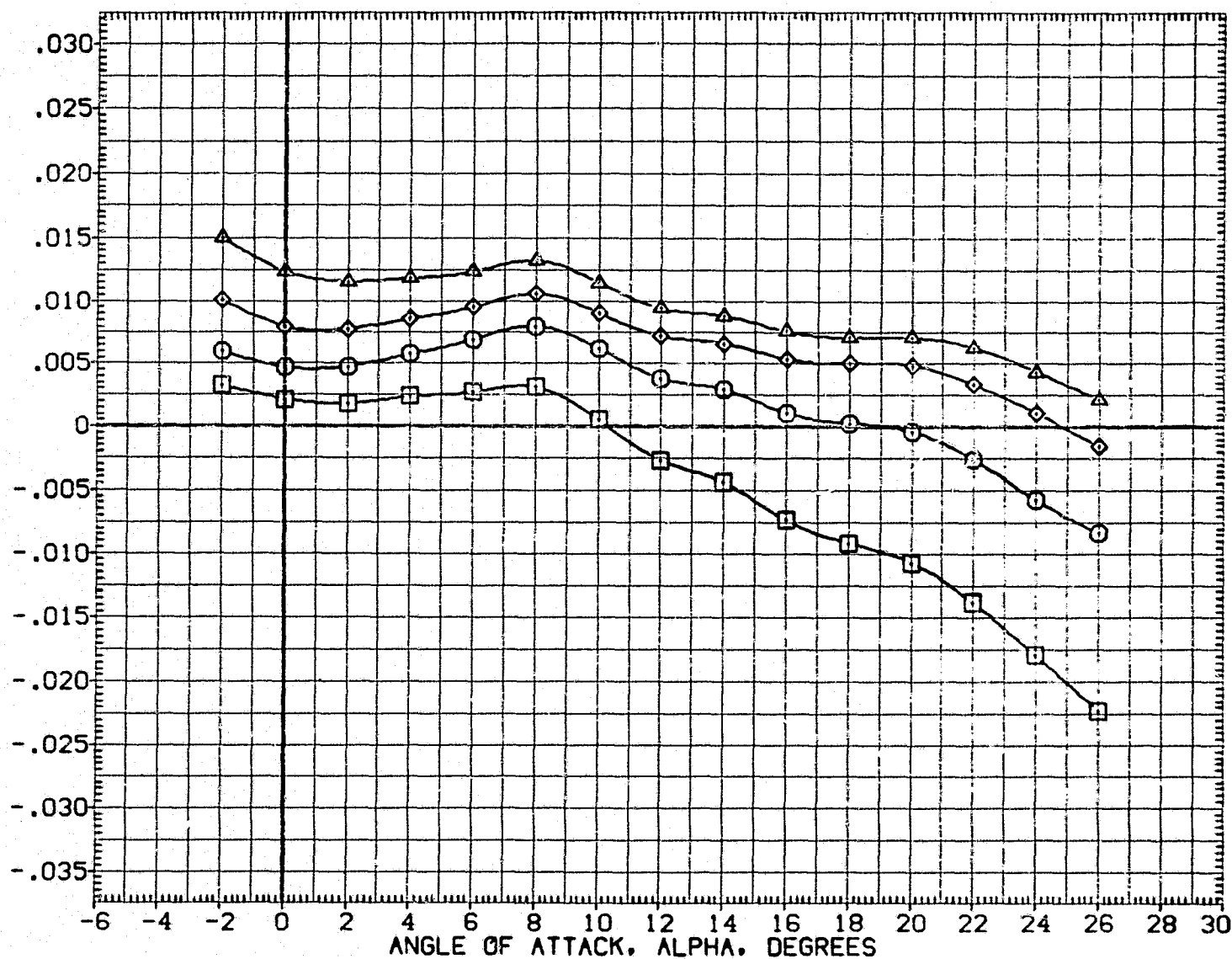


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.), CLMAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO32)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	.000	.000	-20.000	SREF	2690.0000	50.FT.
(BTVO24)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(BTVO06)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	BREF	936.6800	IN.
(BTVO21)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	.500	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

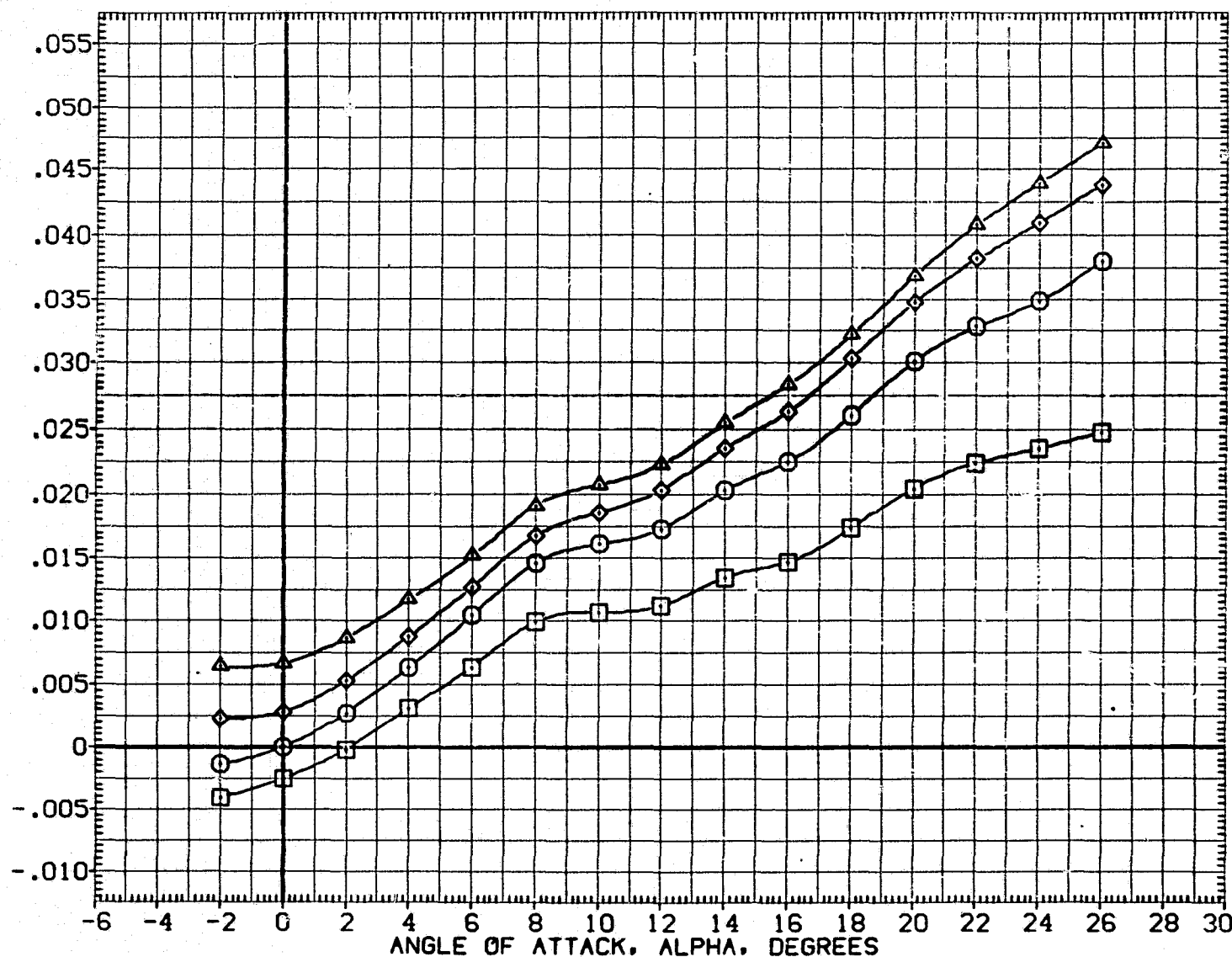


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
(A)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.).CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO32)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	-20.000	SREF	2690.0000	50.FT.
(BTVO24)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(BTVO06)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
(BTVO21)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

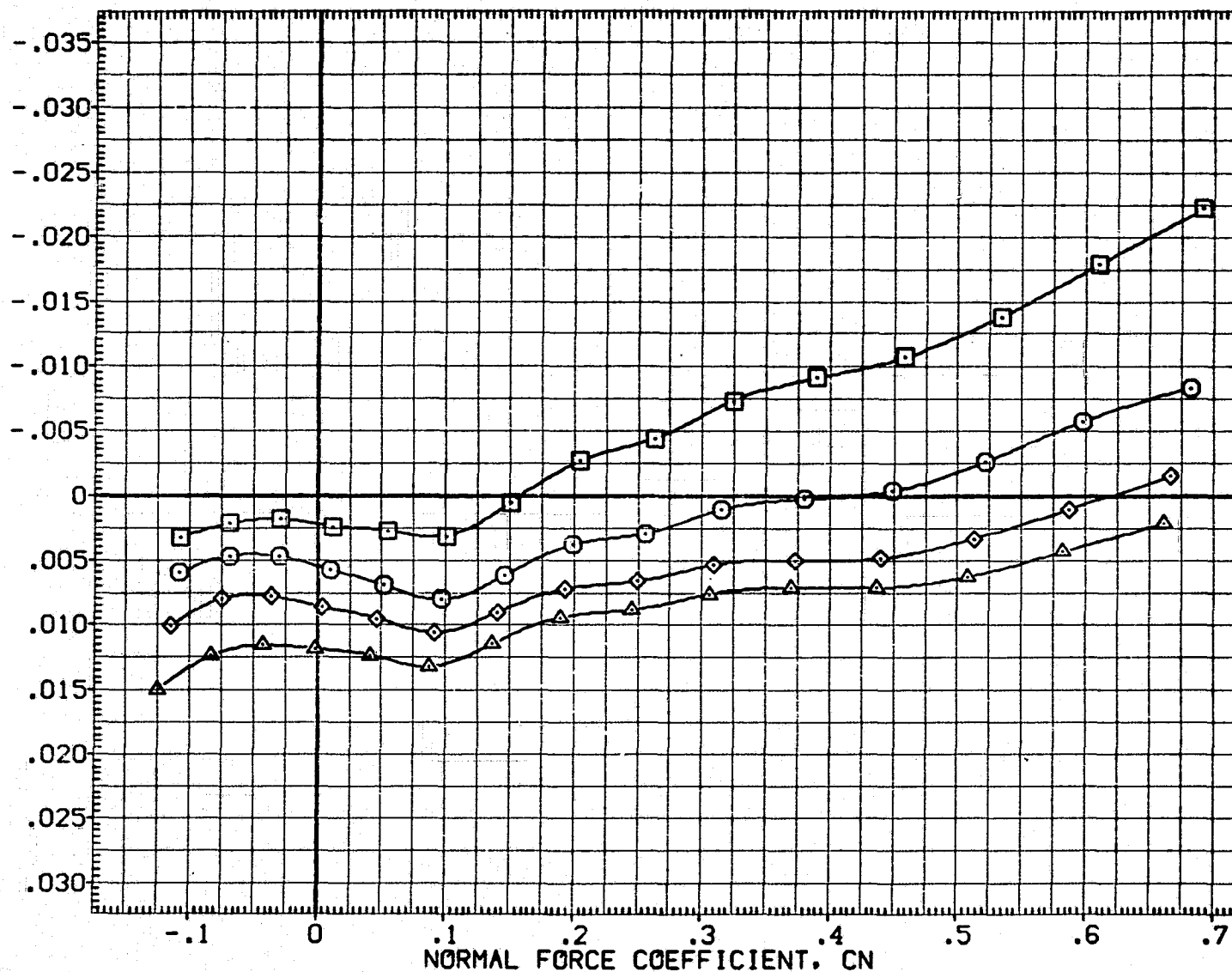


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTV032)	△ 0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	-20.000	SREF	2690.0000	SQ.FT.
(BTV024)	◇ 0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(BTV006)	○ 0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
(BTV021)	□ 0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

PITCHING MOMENT COEFFICIENT AT .675 BODY LENGTH (AFT C. G.), CLMFT

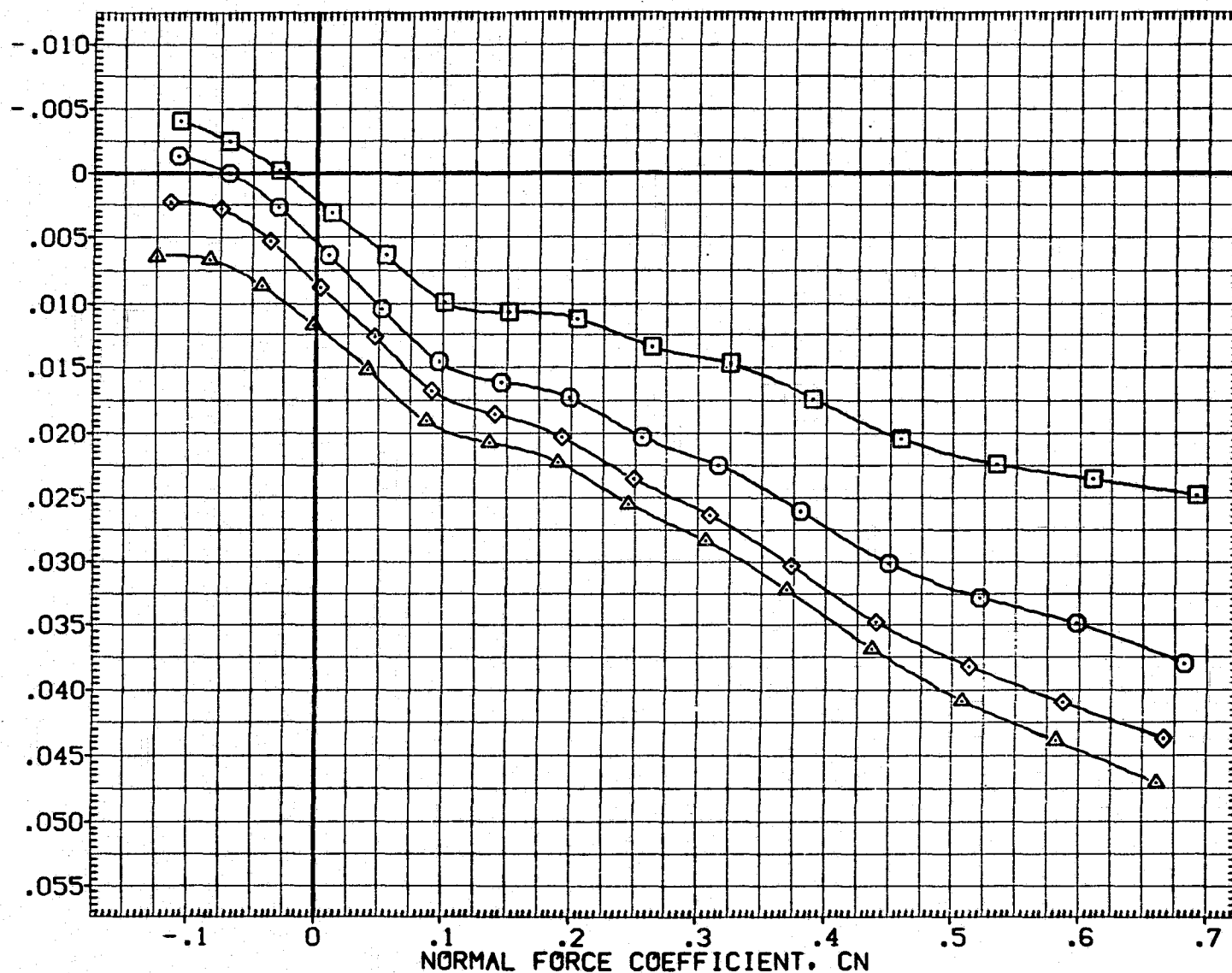


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION		
(BTVO32) Δ	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	-20.000	SREF	2690.0000	50.FT.
(BTVO24) \diamond	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(BTVO06) \circ	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
(BTVO21) \square	0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

CENTER OF PRESSURE LOCATION-AS A FRACTION OF BODY LENGTH, XCP/L

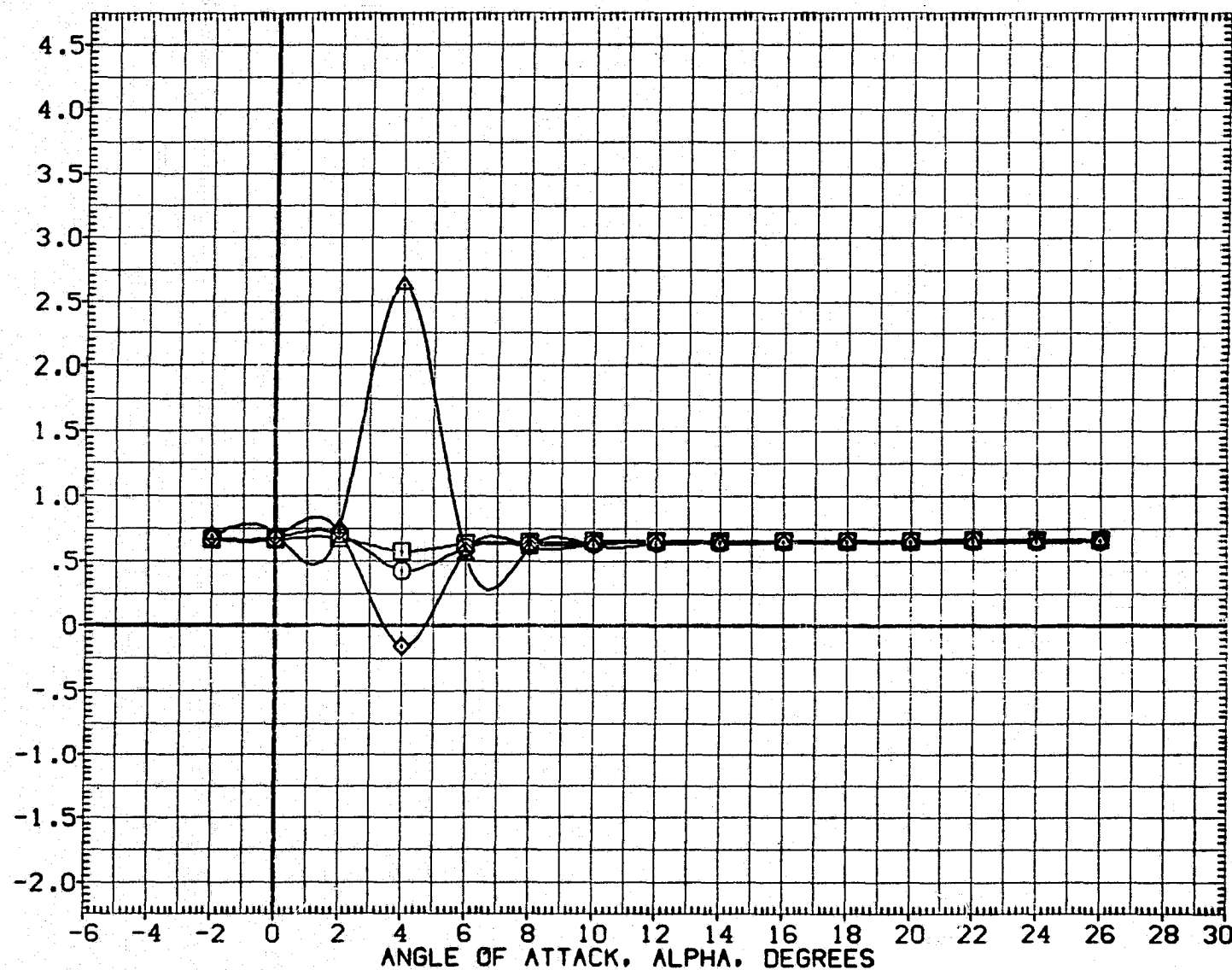


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO32)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	-20.000	SREF	2690.0000	SG.FT.
(BTVO24)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(BTVO06)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
(BTVO21)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

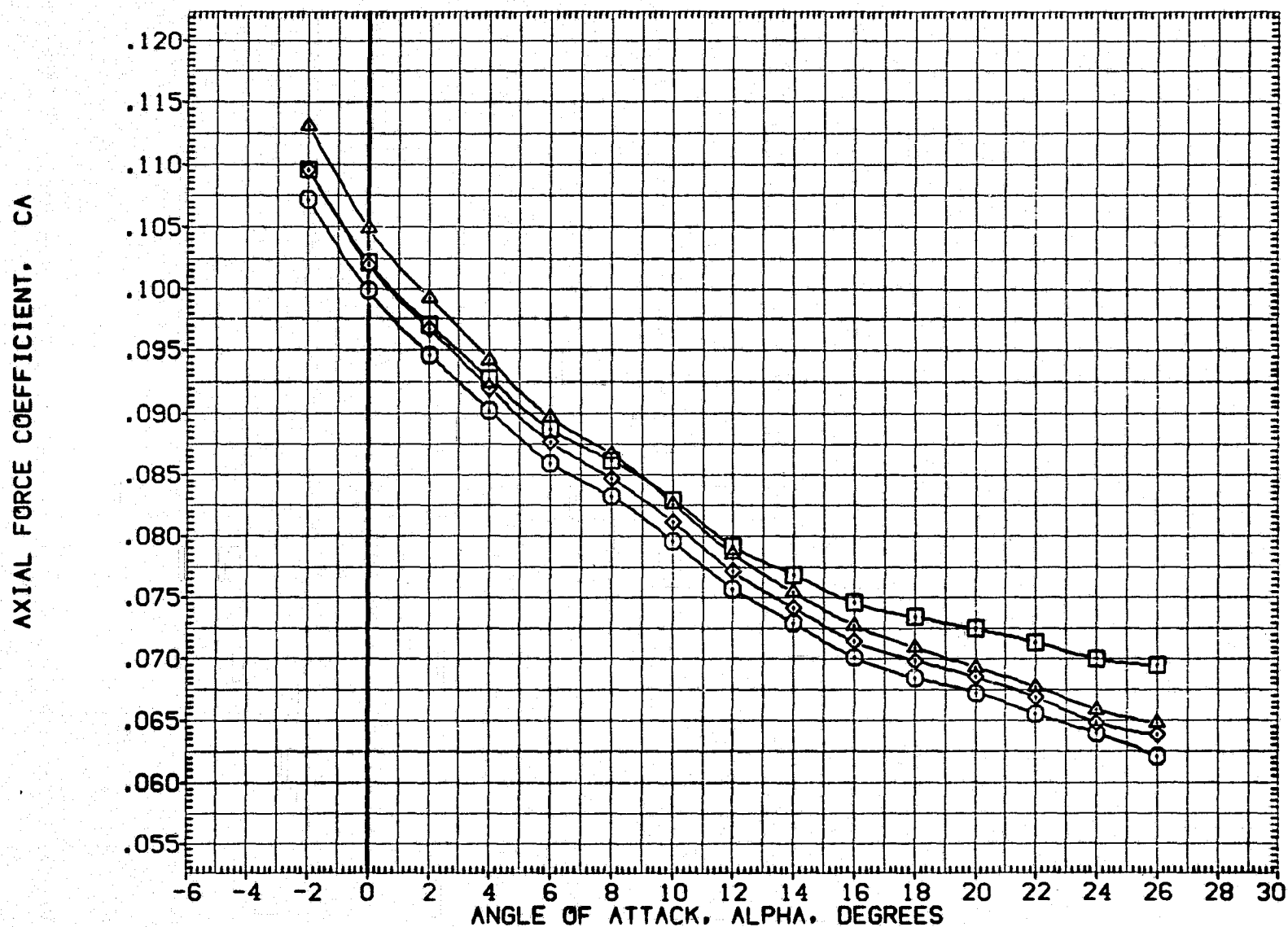


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO32)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO24)	◇	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO06)	○	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO21)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
-20.000	.000	.000	-20.000
-10.000	.000	.000	-10.000
.000	.000	.000	.000
10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SO.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

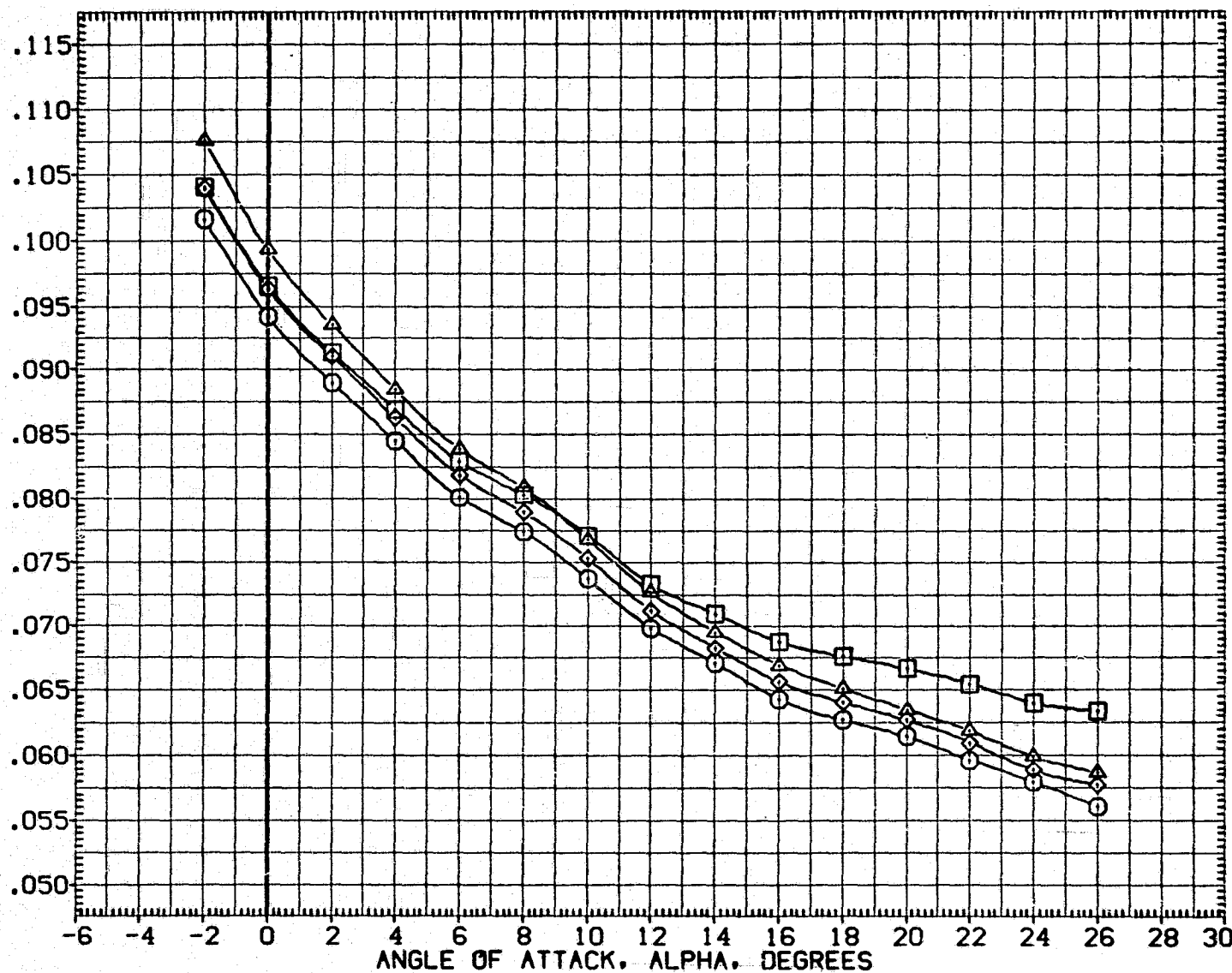


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO32)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO24)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO06)	○	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO21)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
-20.000	.000	.000	-20.000	SREF	2690.0000	SQ.FT.
-10.000	.000	.000	-10.000	LREF	474.8100	IN.
.000	.000	.000	.000	BREF	936.6800	IN.
10.000	.000	.000	10.000	XMRP	1076.6900	IN.X0
				YMRP	.0000	IN.Y0
				ZMRP	375.0000	IN.Z0
				SCALE	.0150	

BASE AXIAL FORCE COEFFICIENT, CAB

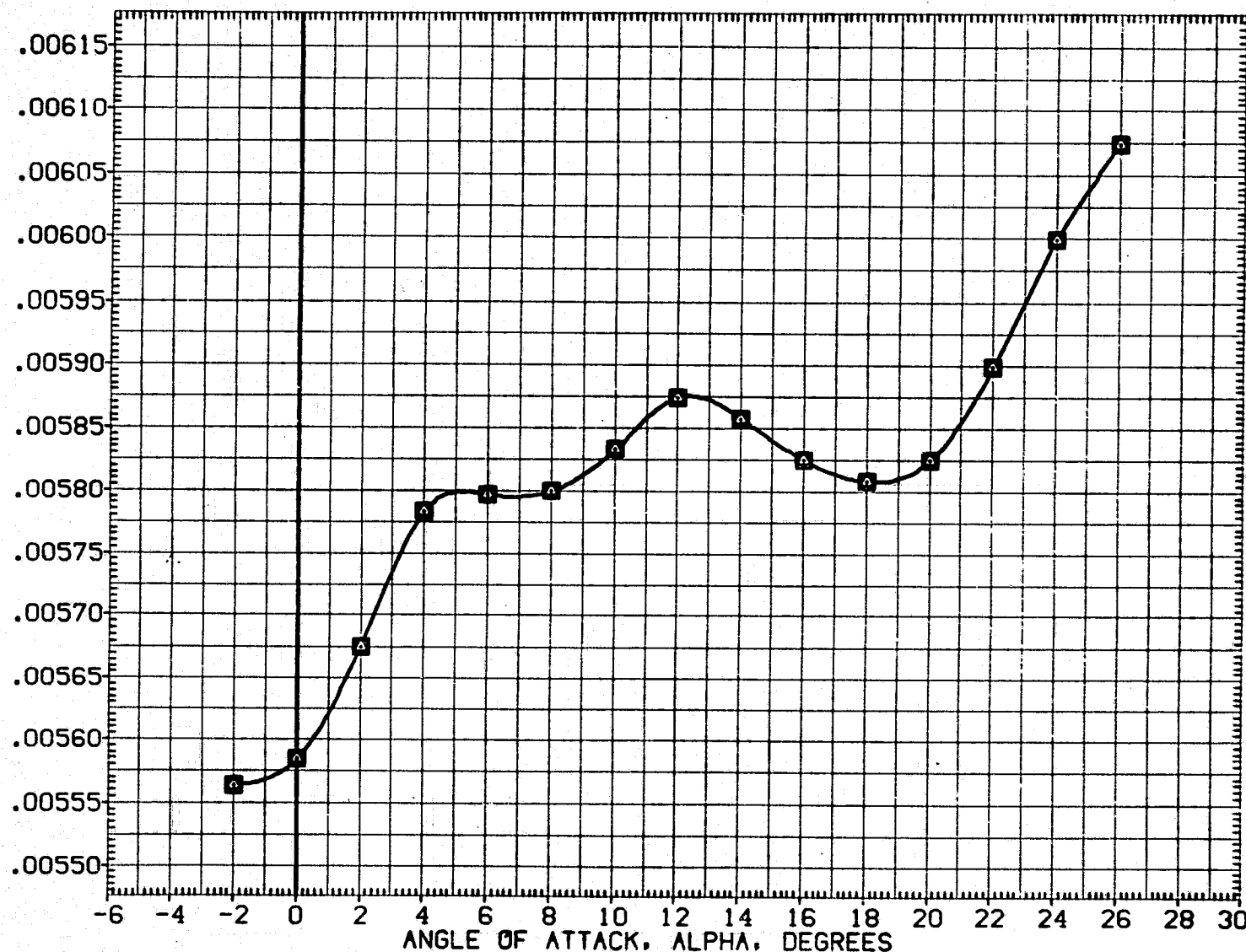


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
(A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO32)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	W116
(BTVO24)	◇	0A115	B26	C9	E43	F8	M16	N28	R5	V8	W116
(BTVO06)	○	0A115	B26	C9	E43	F8	M16	N28	R5	V8	W116
(BTVO21)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	W116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
-20.000	.000	.000	-20.000
-10.000	.000	.000	-10.000
.000	.000	.000	.000
10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

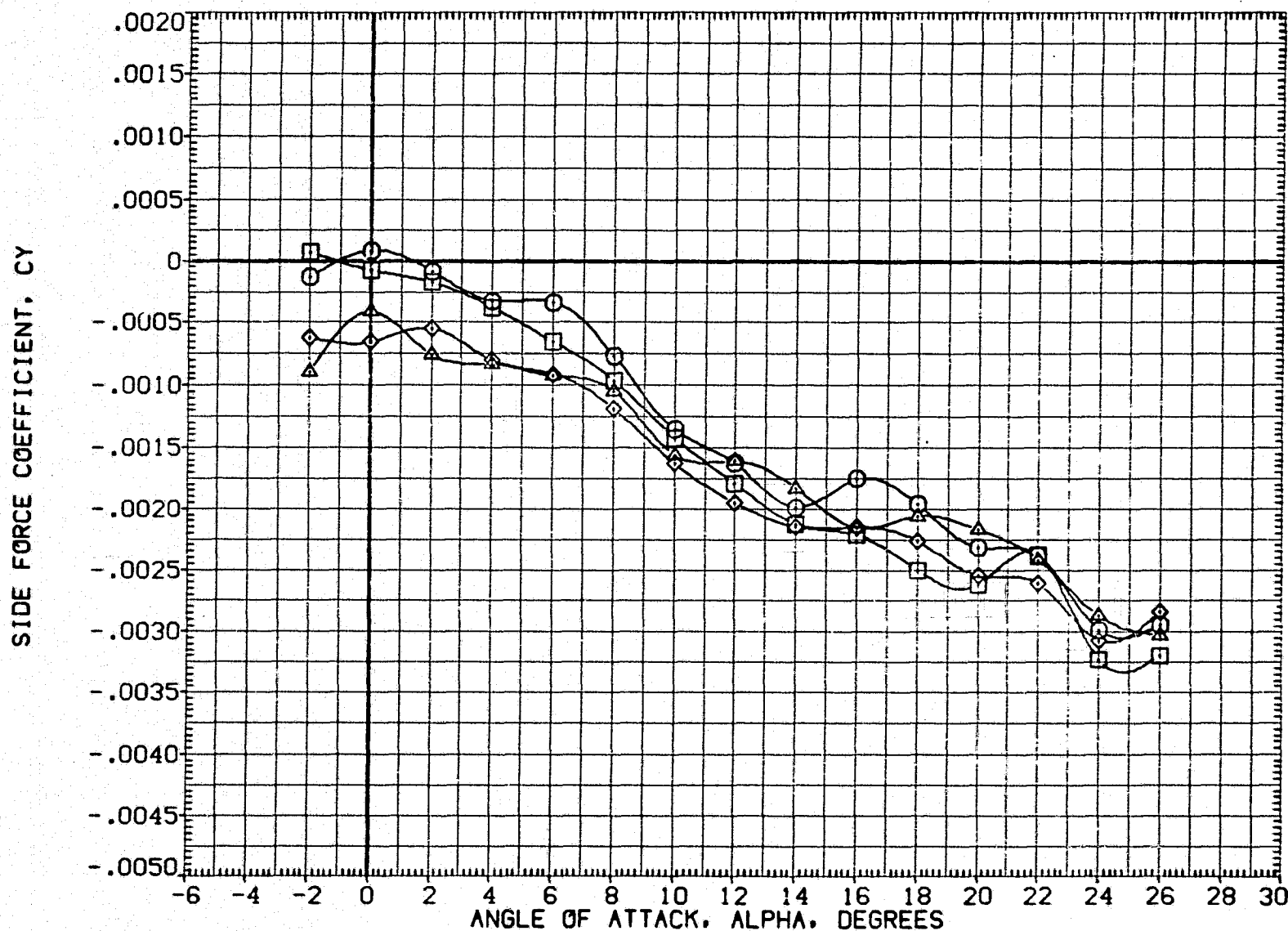


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO32)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	.000	.000	-20.000	SREF	2690.0000	SG.FT.
(BTVO24)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(BTVO06)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	BREF	936.6300	IN.
(BTVO21)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	.000	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

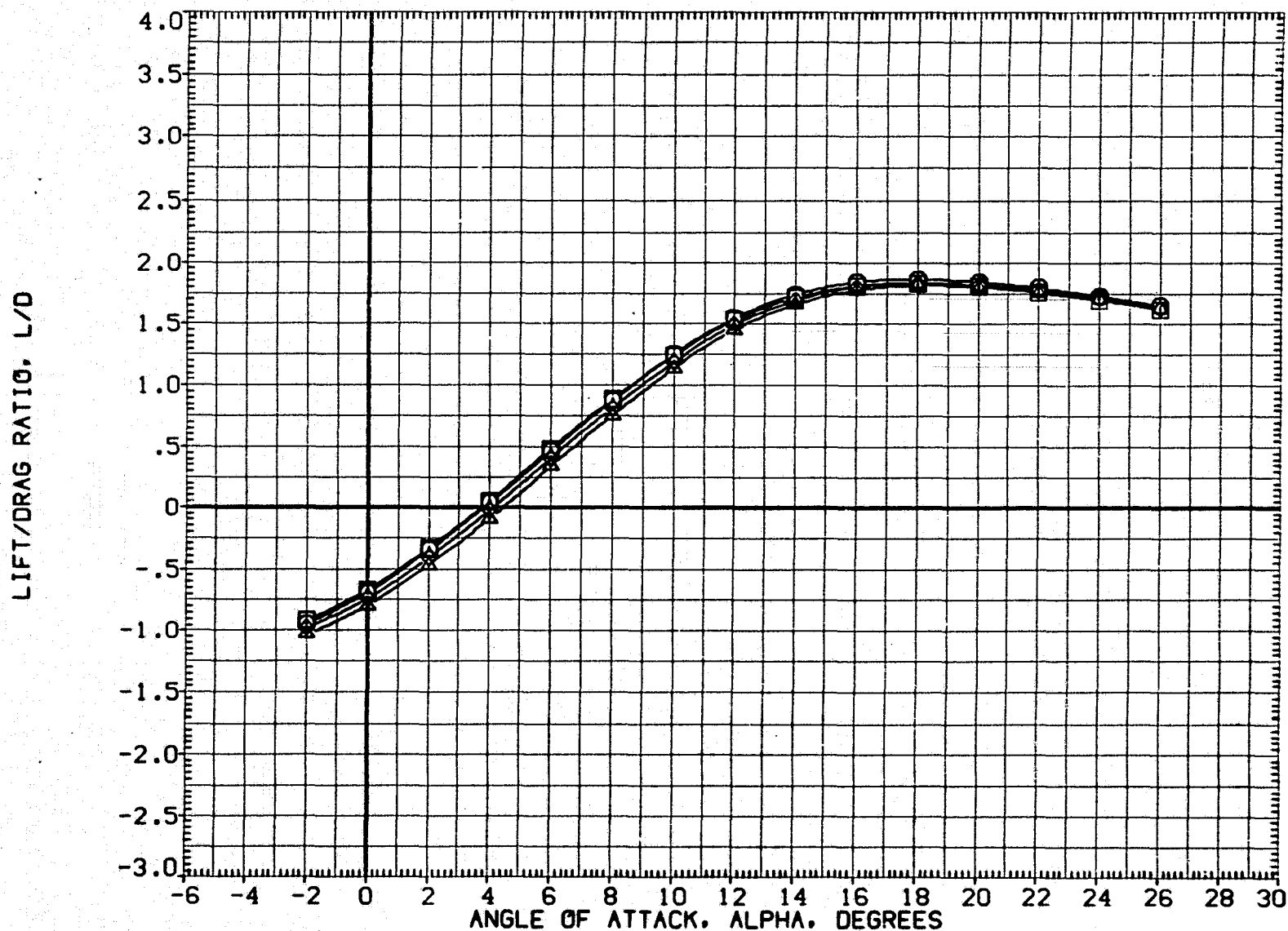


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV032)	0A115 826 C9 E43 F8 M15 N28 R5 V8 V116	-20.000	.000	.000	-20.000	SREF	2690.0000	SQ.FT.
(RTV024)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(RTV006)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
(RTV021)	0A115 826 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

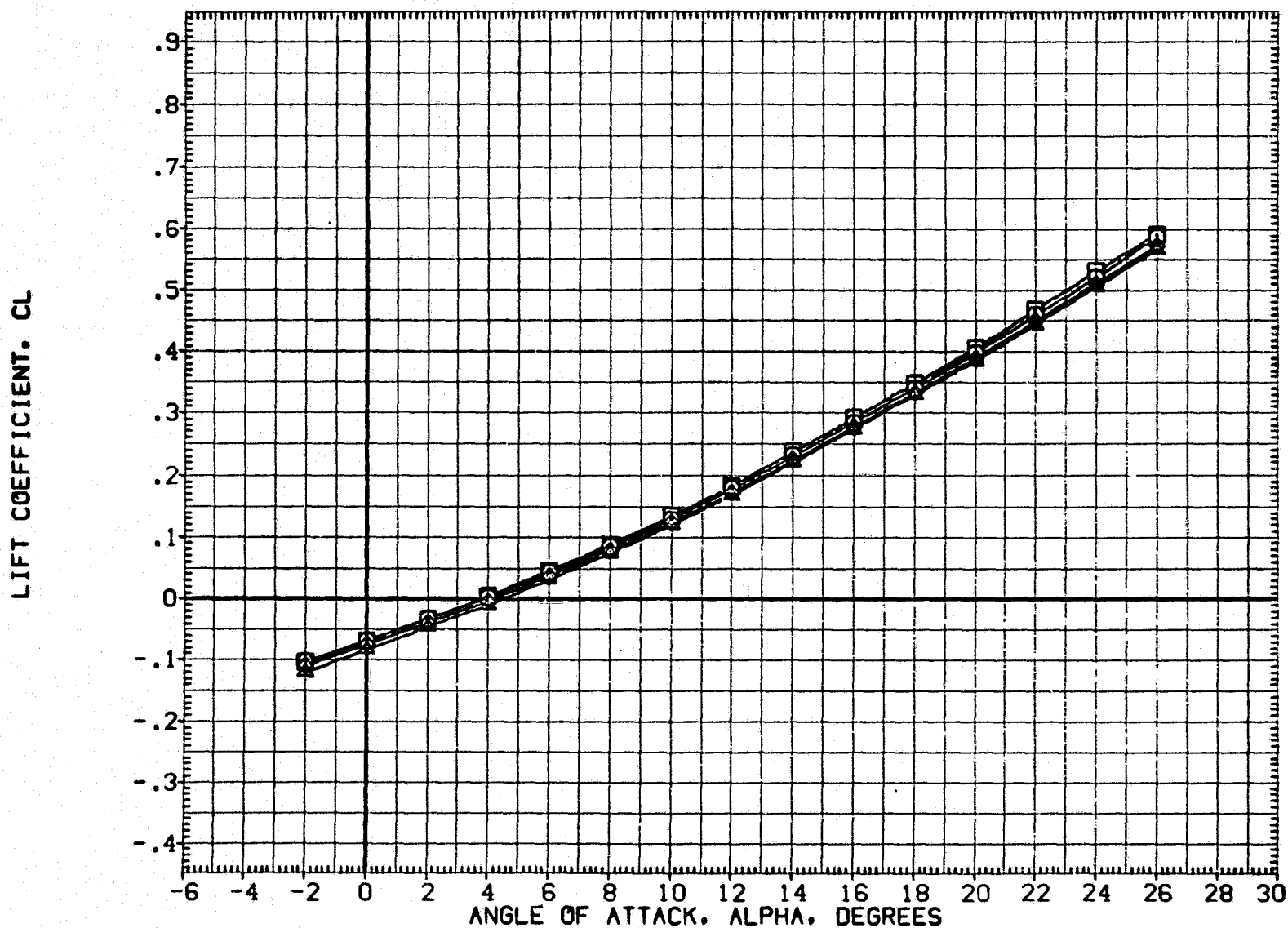


FIG. 13 OUTBOARD ELEVON EFFECT, W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV032)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	-20.000	SREF	2690.0000	SQ.FT.
(RTV024)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(RTV006)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
(RTV021)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

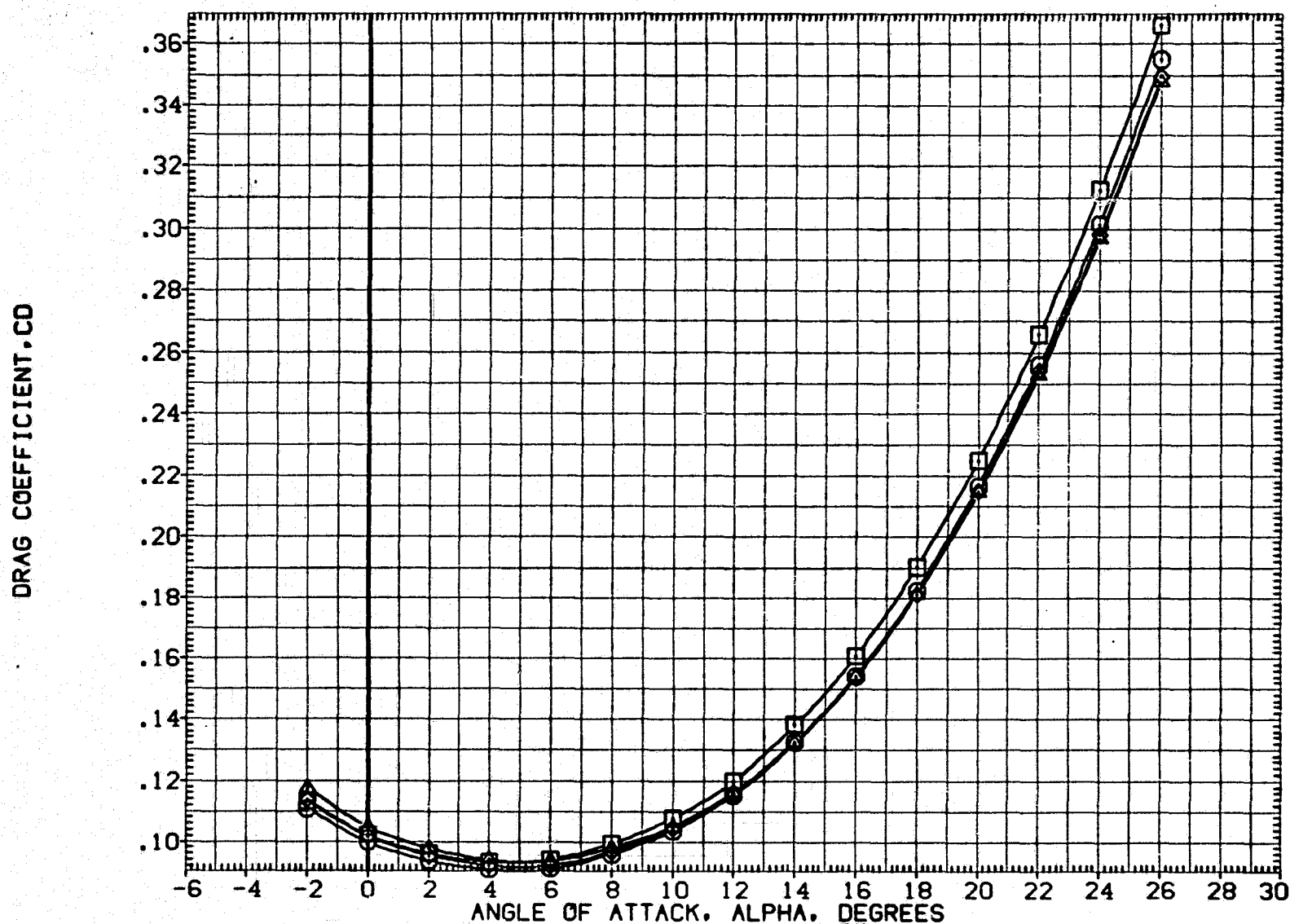


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)

(A) MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(RTV032)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	-20.000	SREF	2690.0000 SQ.FT.
(RTV024)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100 IN.
(RTV006)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800 IN.
(RTV021)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

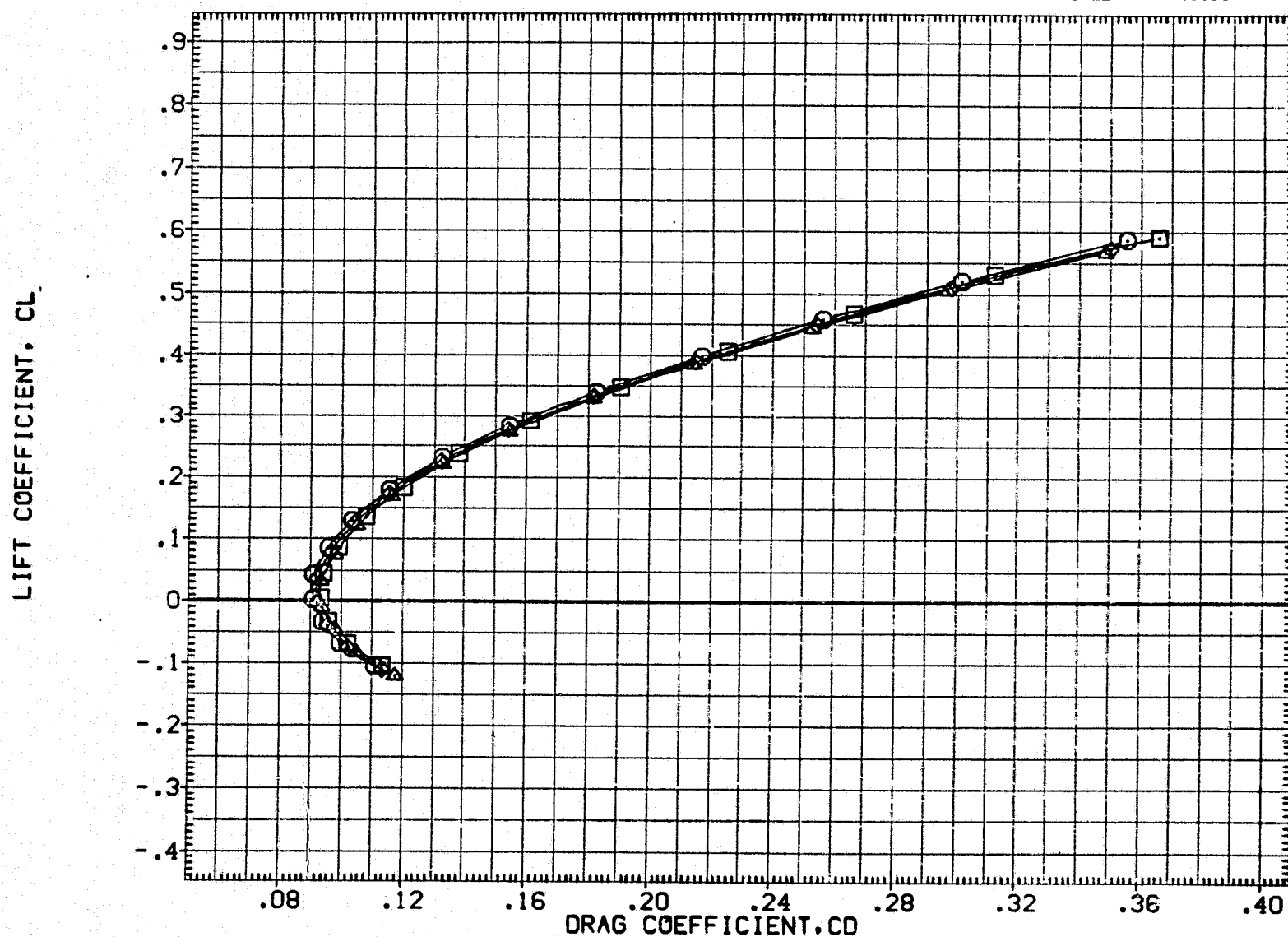


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV032)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	-20.000	SREF	2690.0000	SQ.FT.
(ATV024)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(ATV006)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
(ATV021)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

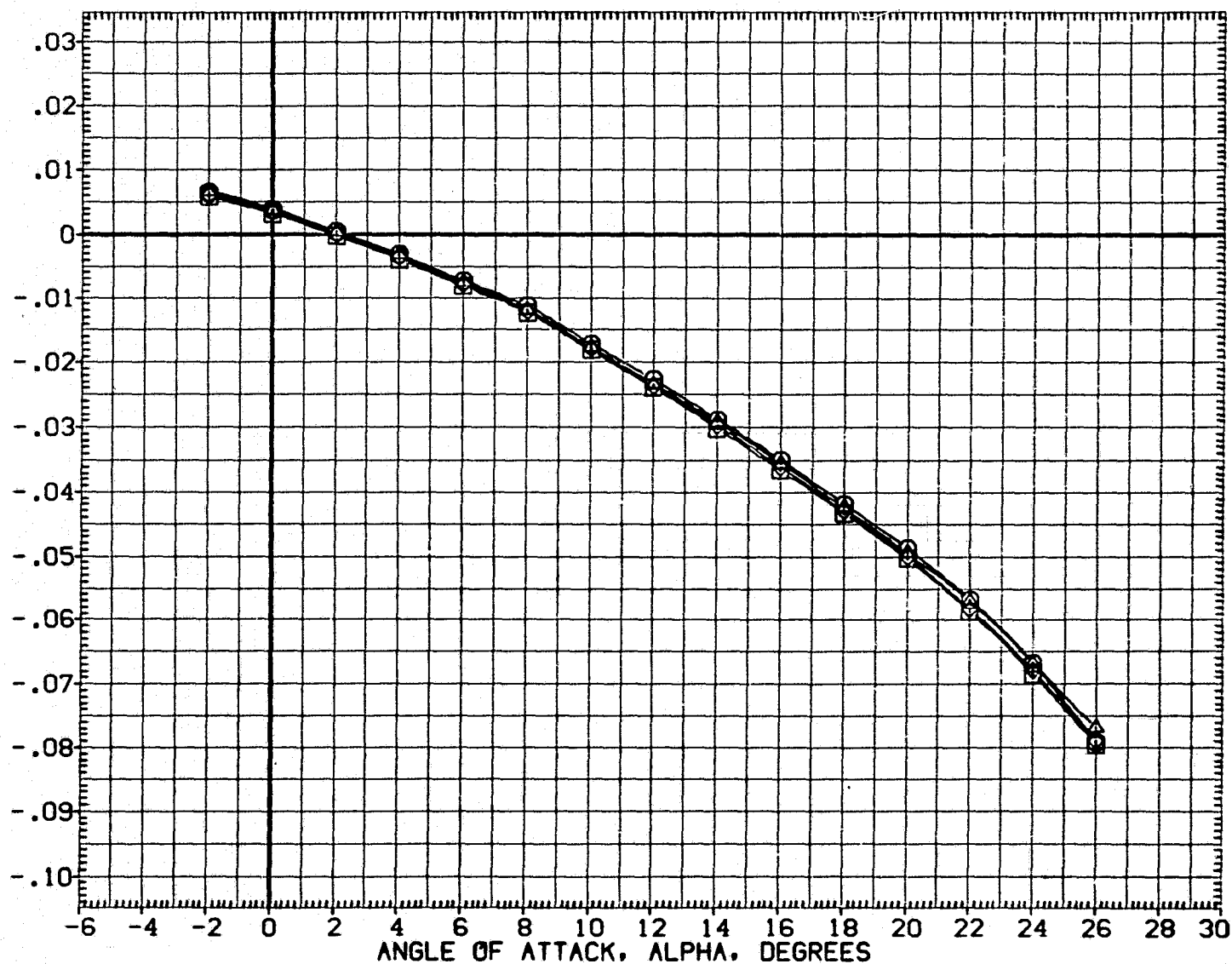


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A) MACH = 5.00

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(ATV032)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	.000	.000	-20.000	SREF	2690.0000 SQ.FT.
(ATV024)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	.000	.000	-10.000	LREF	474.8100 IN.
(ATV006)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	BREF	936.6800 IN.
(ATV021)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	.000	.000	10.000	XMRP	1076.6800 IN.X0
						YMRP	.0000 IN.Y0
						ZMRP	375.0000 IN.Z0
						SCALE	.0150

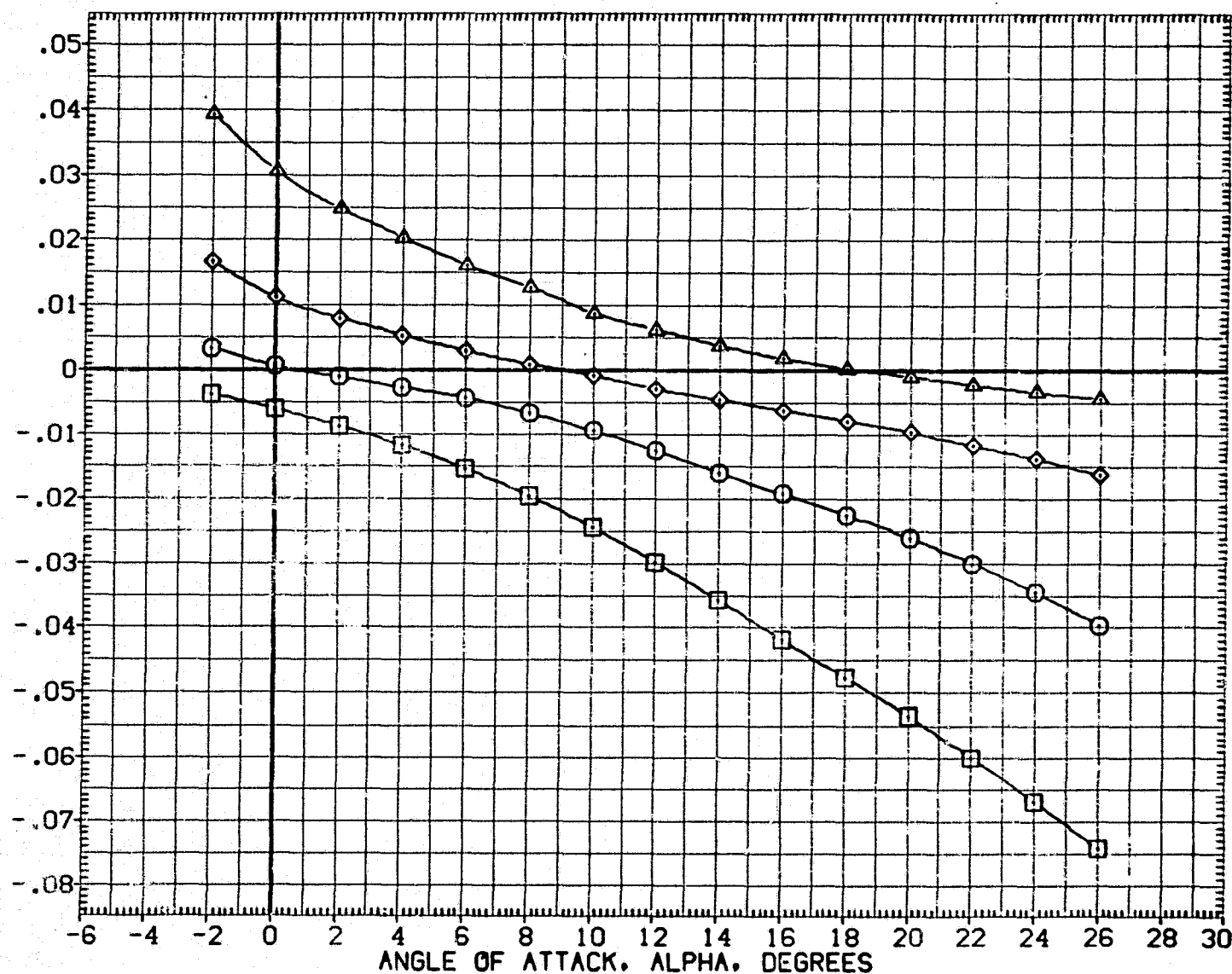


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV032)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(ATV024)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000	LREF	474.8100	IN.
(ATV006)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	BREF	936.6800	IN.
(ATV021)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

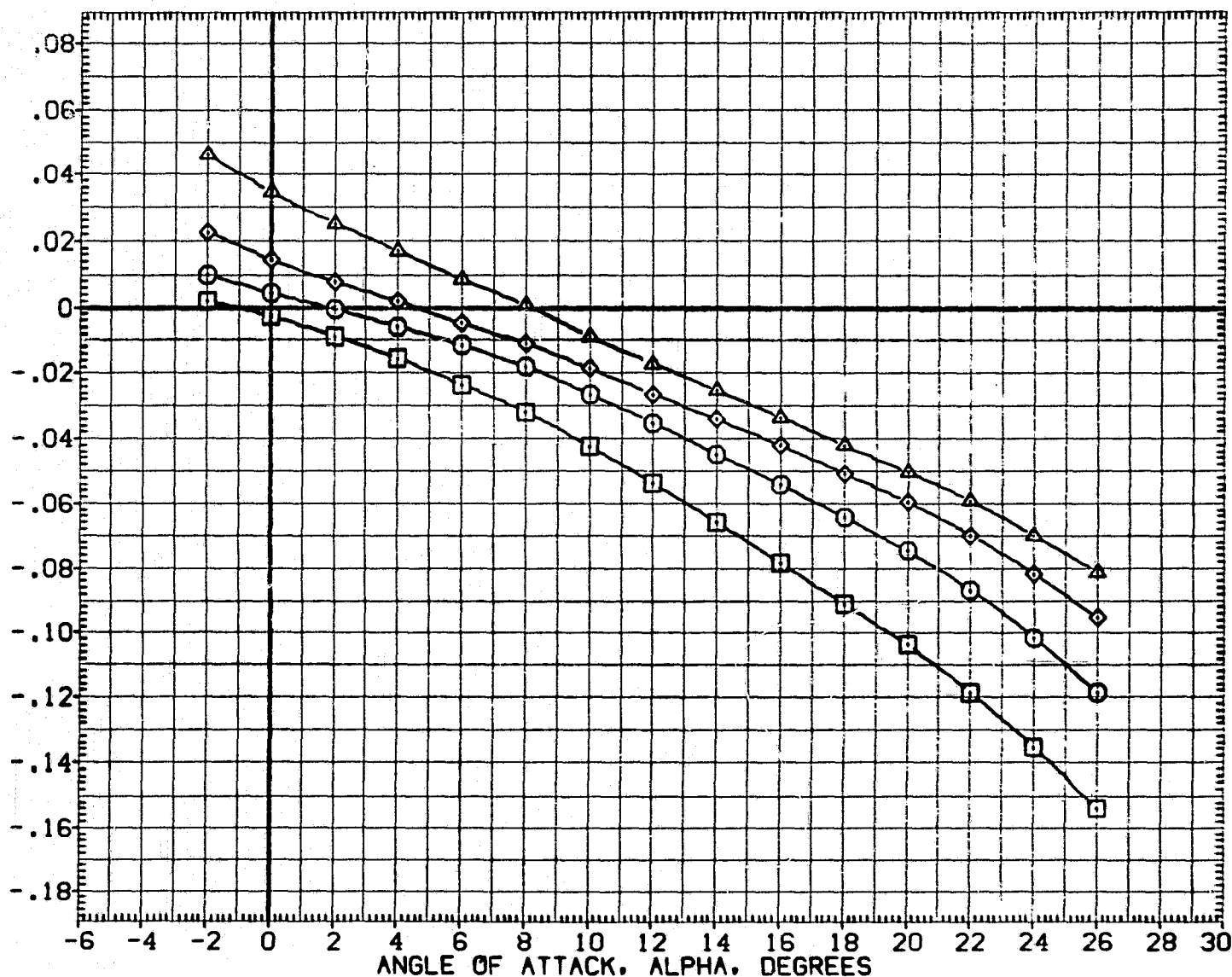


FIG. 13 OUTBOARD ELEVON EFFECT. W/INBOARDS UNDEFLECTED (B. FLAP=0, SPD BRK =85)
 (A)MACH = 5.00

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV032)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DLTEL1	.000	DATASET	DLTELO	DATASET	DLTELO	SREF	2690.0000	50.FT.
○	-3.000									LREF	474.8100	IN.
□	.000	DLTER1	.000	BETA	.000	CTV032	-20.000	CTV024	-10.000	BREF	936.6800	IN.
◇	5.000	BDFLAP	.000	RUDDER	.000	CTV006	.000	CTV021	10.000	XMRP	1076.6800	IN.X0
△	10.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL LIFT FORCE COEFFICIENT, DLICL

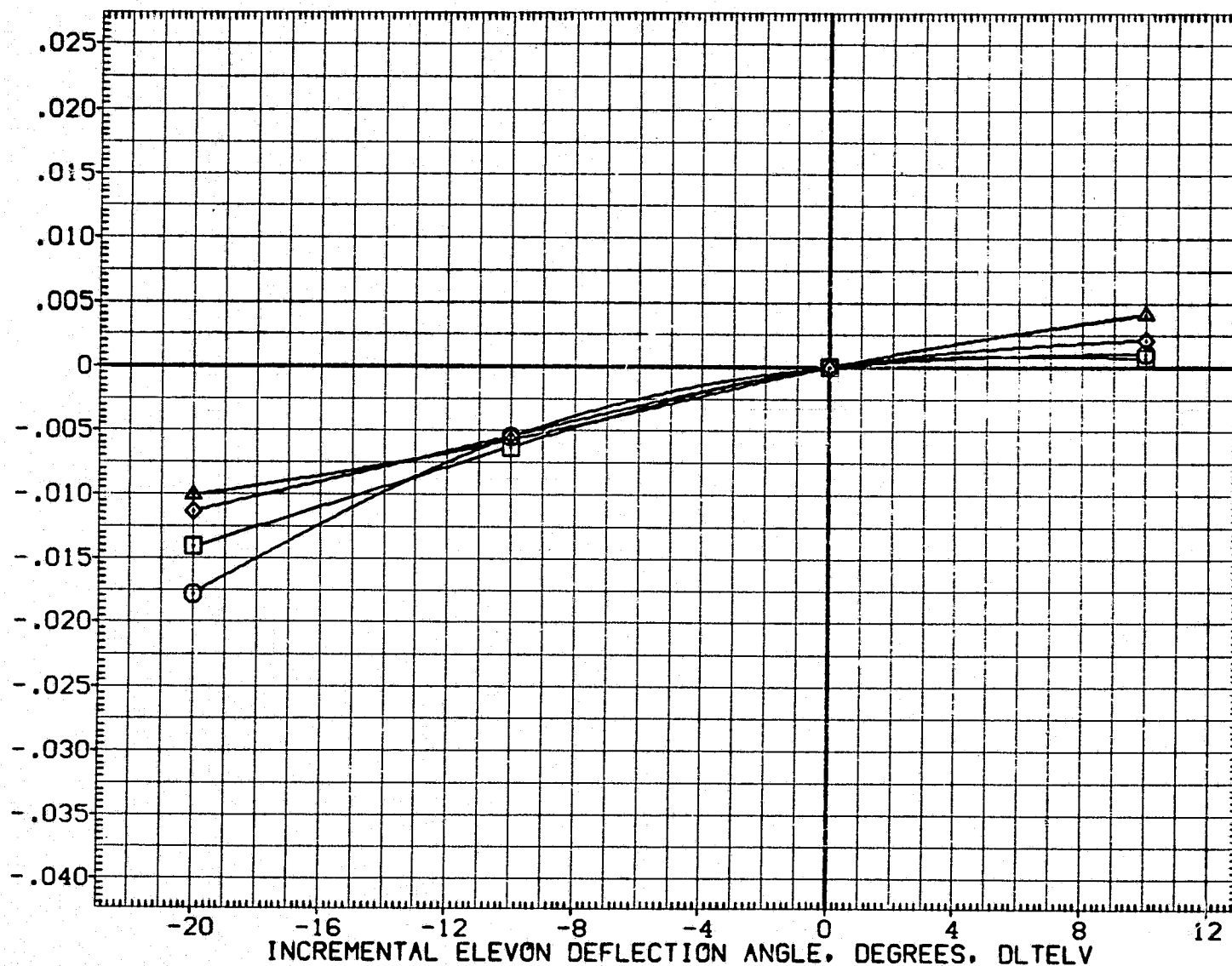


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV032)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	15.000		5.000	DLTELI	.000	DATASET	DLTELO		SREF	2690.0000	SQ.FT.
□	20.000	DLTERI	.000	BETA	.000	CTV032	-20.000	CTV024	LREF	474.8100	IN.
◇	25.000	BDFLAP	.000	RUDDER	.000	CTV006	.000	CTV021	BREF	936.6800	IN.
△	27.000								XMRP	1076.6800	IN.X0
									YMRP	.0000	IN.Y0
									ZMRP	375.0000	IN.Z0
									SCALE	.0150	

INCREMENTAL LIFT FORCE COEFFICIENT, DLTCI

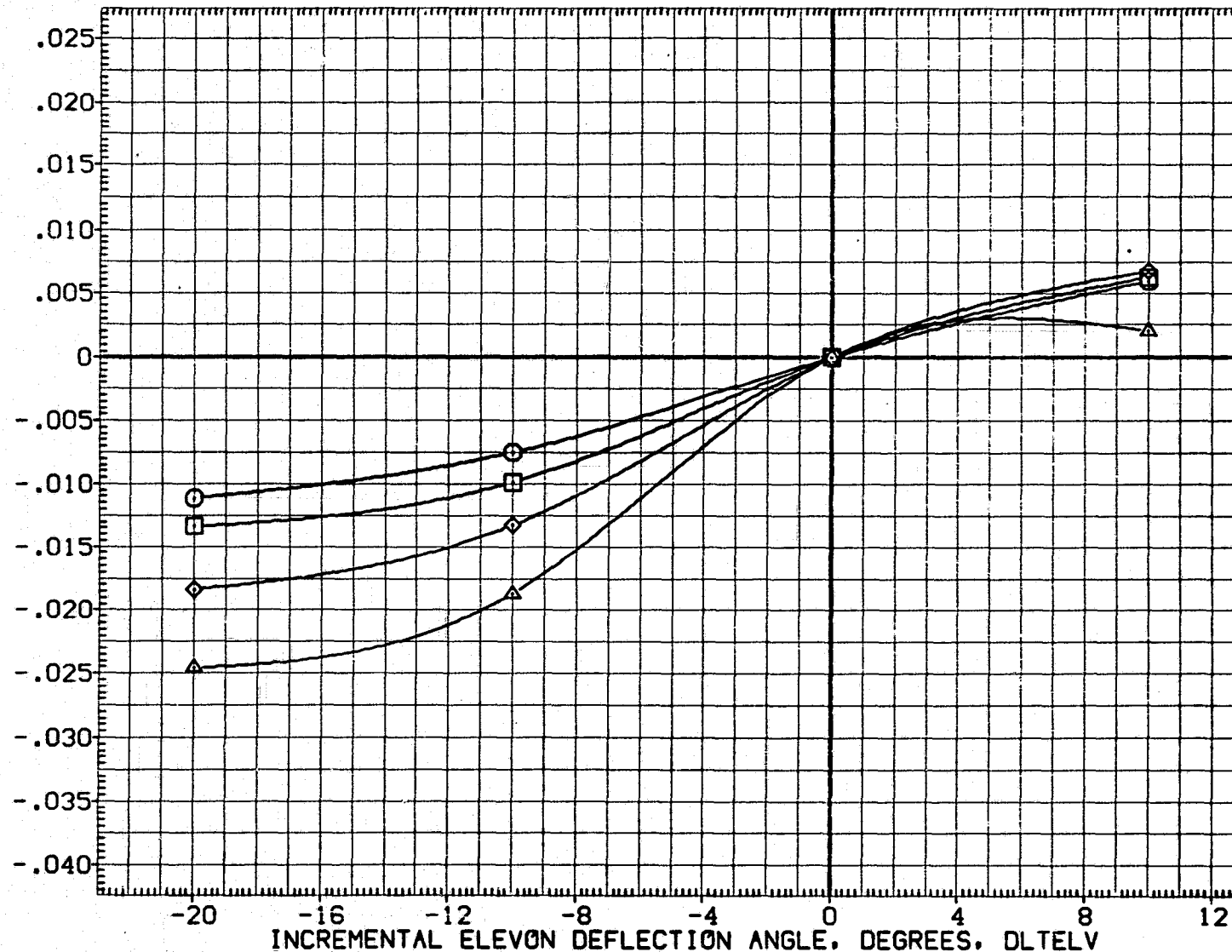


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV032)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	-3.000		5.000 DLTEL I	.000 DATASET	2690.0000 SQ.FT.
□	.000	DLTERI	.000 BETA	.000 CTV032	474.8100 IN.
◇	5.000	BDFLAP	.000 RUDDER	.000 CTV006	936.6800 IN.
△	10.000				1076.6800 IN.X0
					.0000 IN.Y0
					375.0000 IN.Z0
					.0150 SCALE

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

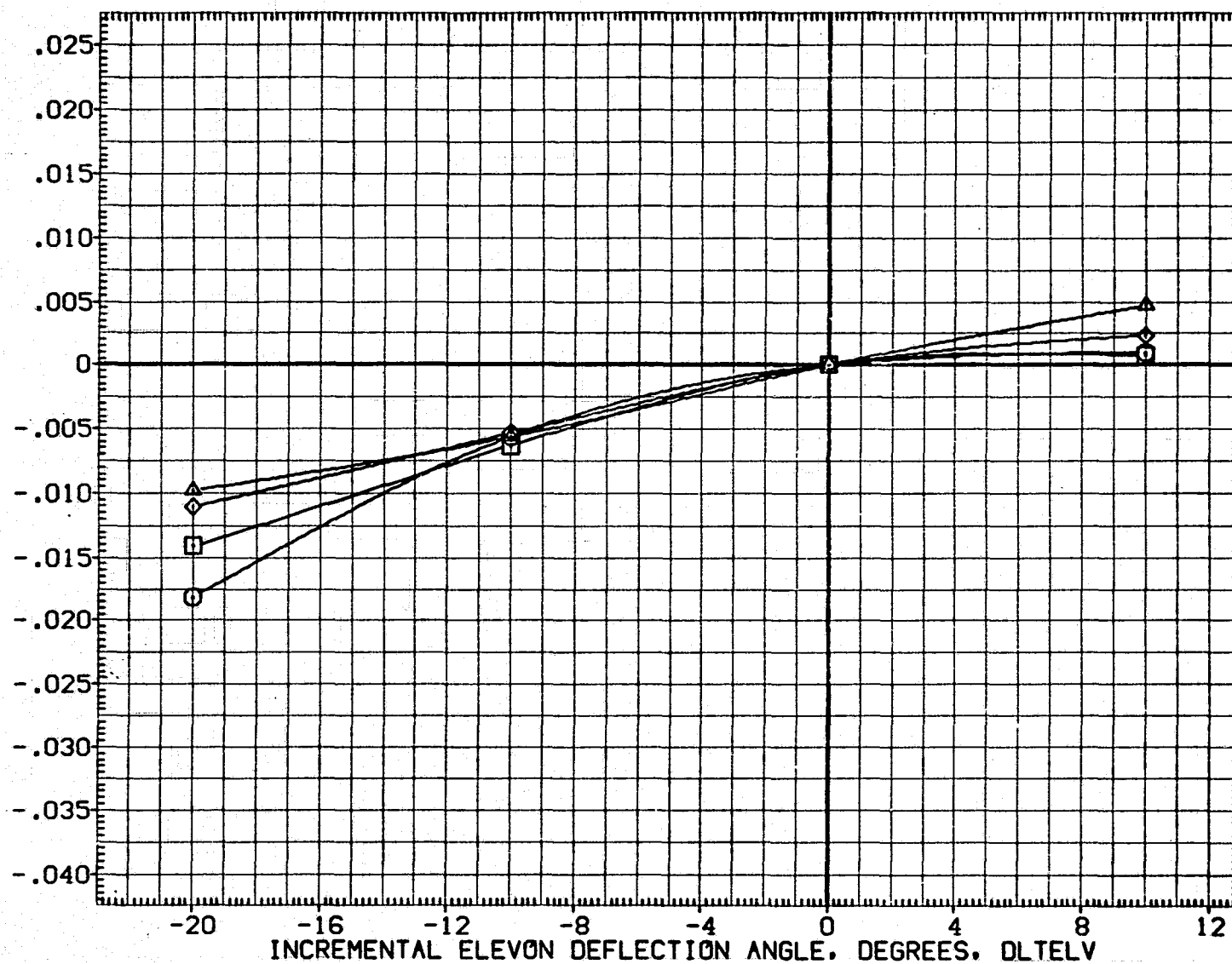


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV032)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	15.000		5.000 DLTEL1	.000 DATASET	DLTEL0 SREF 2690.0000 SQ.FT.
□	20.000	DLTER1	.000 BETA	.000 CTV032	-20.000 CTV024 -10.000 LREF 474.8100 IN.
◇	25.000	BDFLAP	.000 RUDDER	.000 CTV006	10.000 BREF 936.6800 IN.
△	27.000				XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

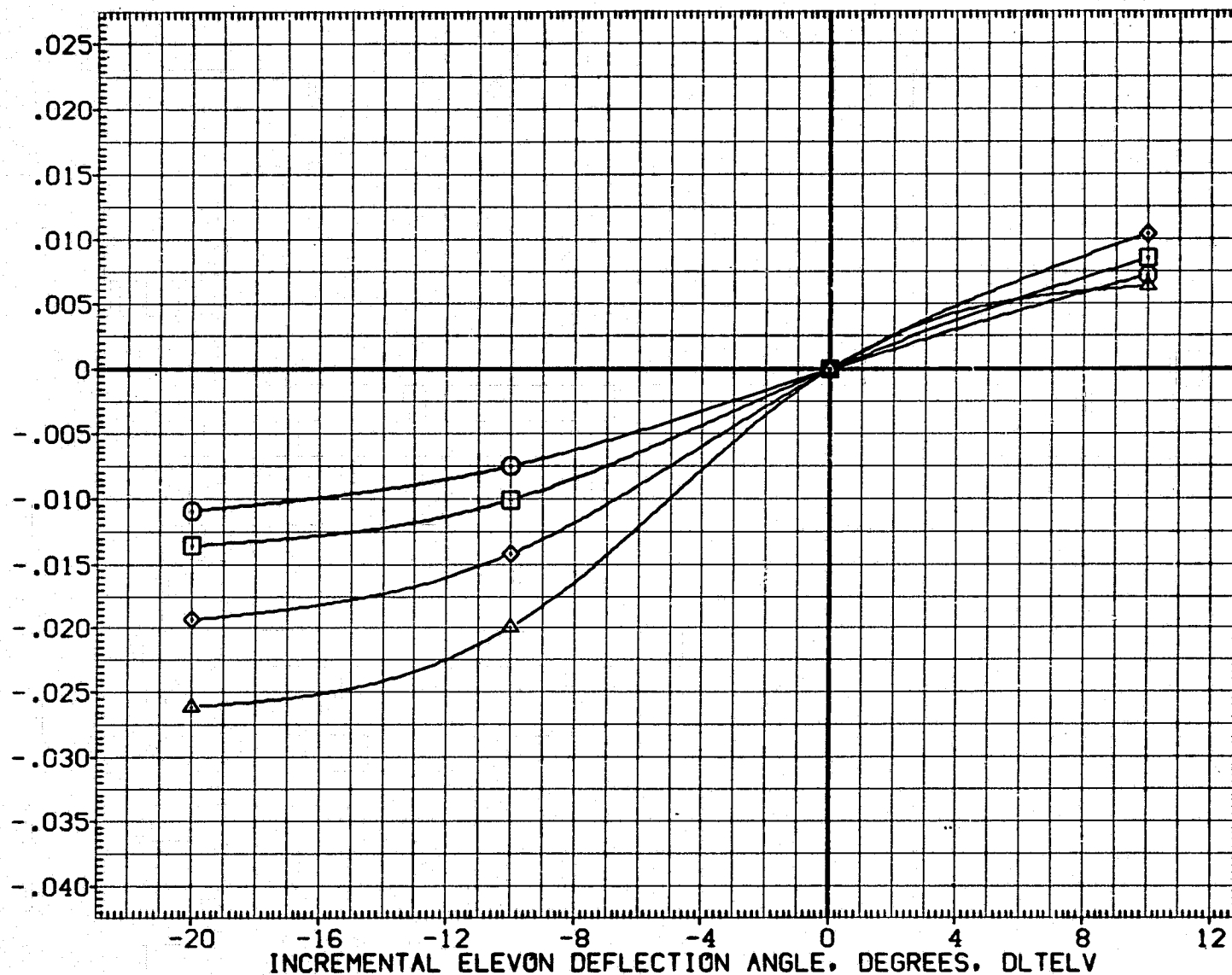


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV032)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH

DLTERI
BDFLAP

PARAMETRIC VALUES

5.000 DLTEL1
.000 BETA
.000 RUDDER

.000 DATASET
.000 CTV032
.000 CTV006

DATA SOURCE

DLTELO -20.000
DATASET CTV024
CTV021

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL DRAG FORCE COEFFICIENT, DLICD

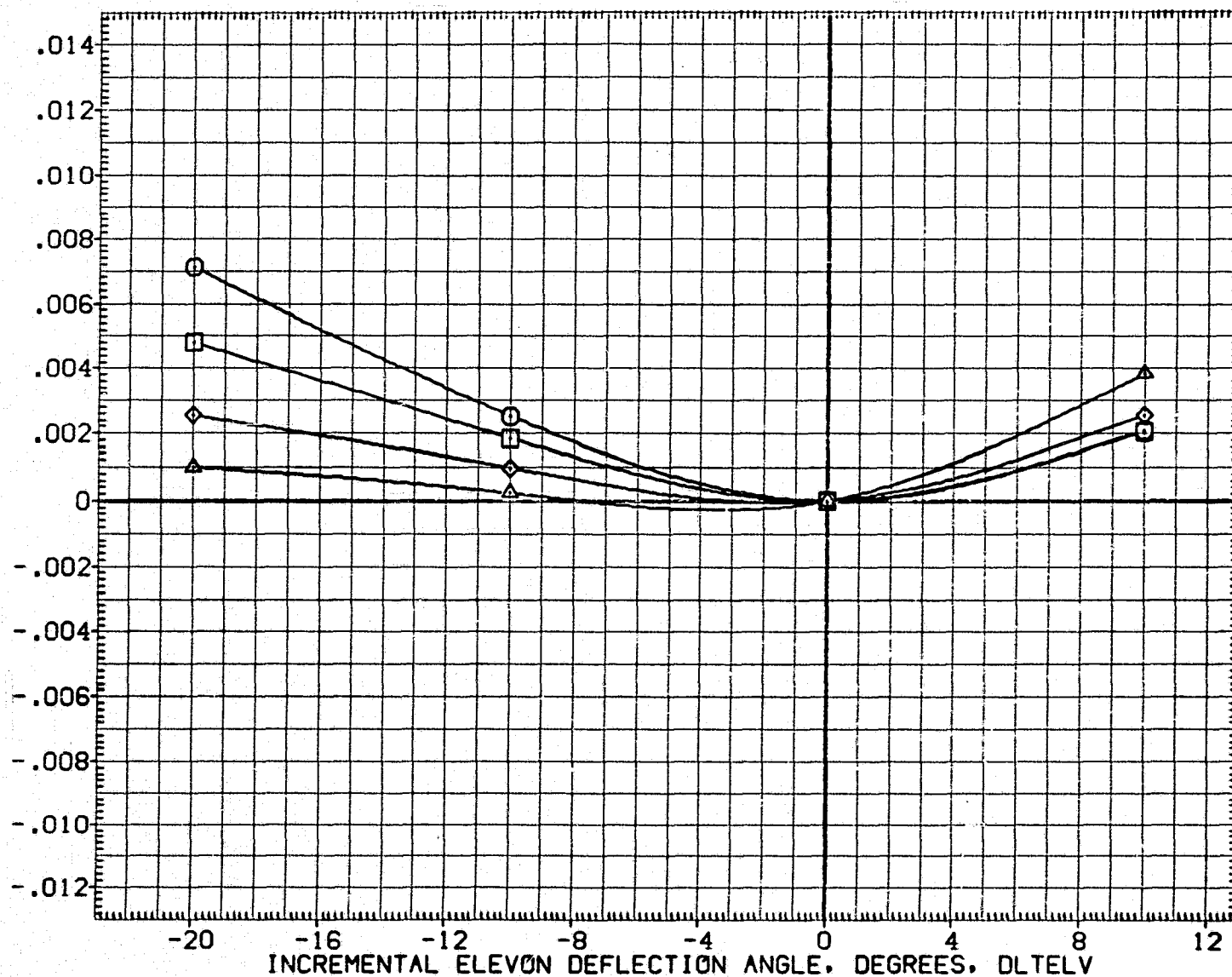


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV032)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	15.000	5.000	DLTELO	.000 DATASET	SREF 2690.0000 SQ.FT.
□	20.000	.000	BETA	.000 CTV032	LREF 474.8100 IN.
◇	25.000	.000	RUDDER	.000 CTV006	BREF 936.6800 IN.
△	27.000				XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL DRAG FORCE COEFFICIENT, DLTCO

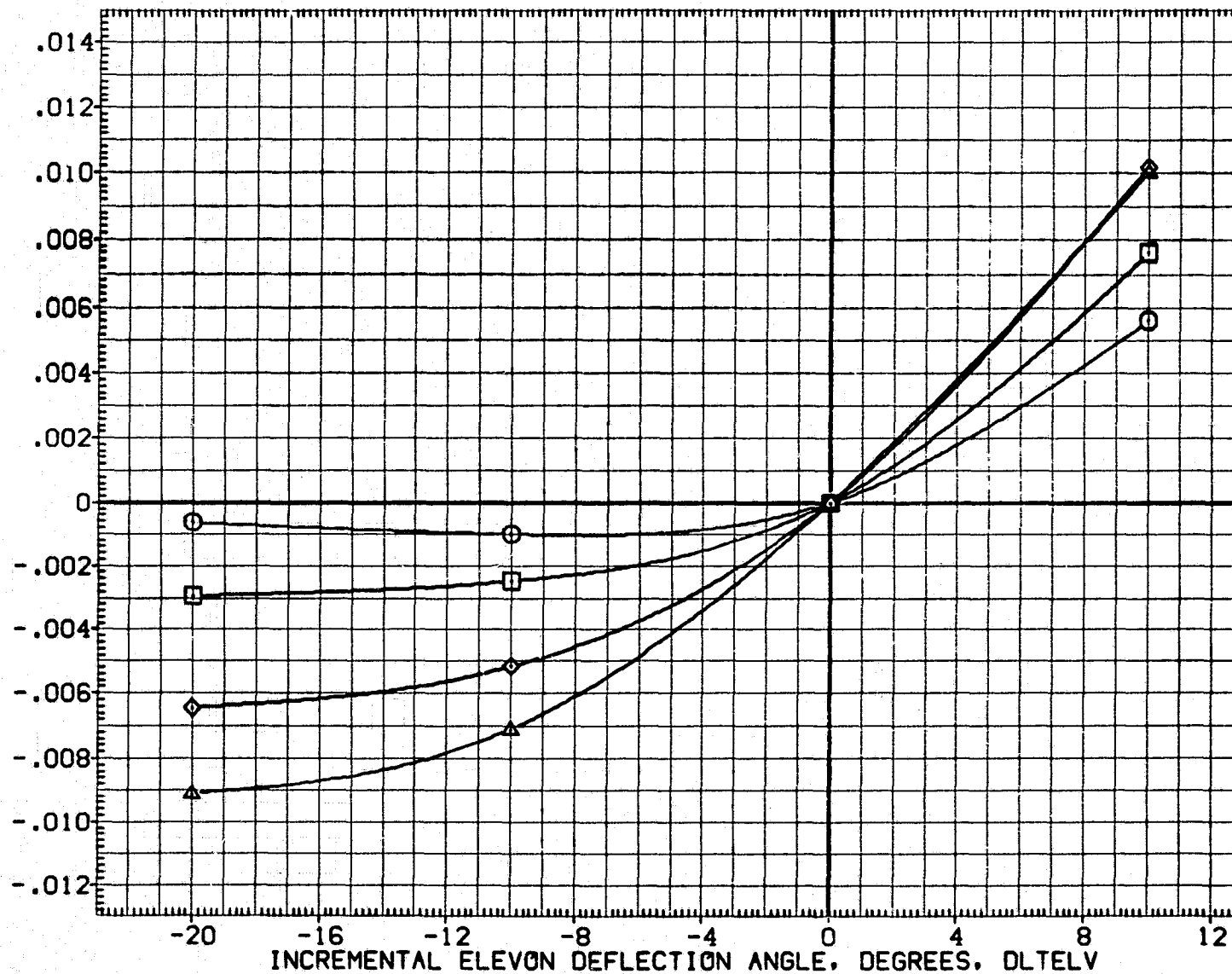


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV032)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DLTELO	DATASET	DLTELO	SREF	2690.0000	50.FT.
○	-3.000	DLTERI	.000	BETA	.000	DTV032	-20.000	LREF	474.8100	IN.
□	.000	BOFLAP	.000	RUDDER	.000	DTV006	.000	BREF	936.6800	IN.
◇	5.000							YMRP	1076.6800	IN.X0
△	10.000							ZMRP	.0000	IN.Y0
								SCALE	375.0000	IN.Z0
									.0150	

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.) DLTCMF

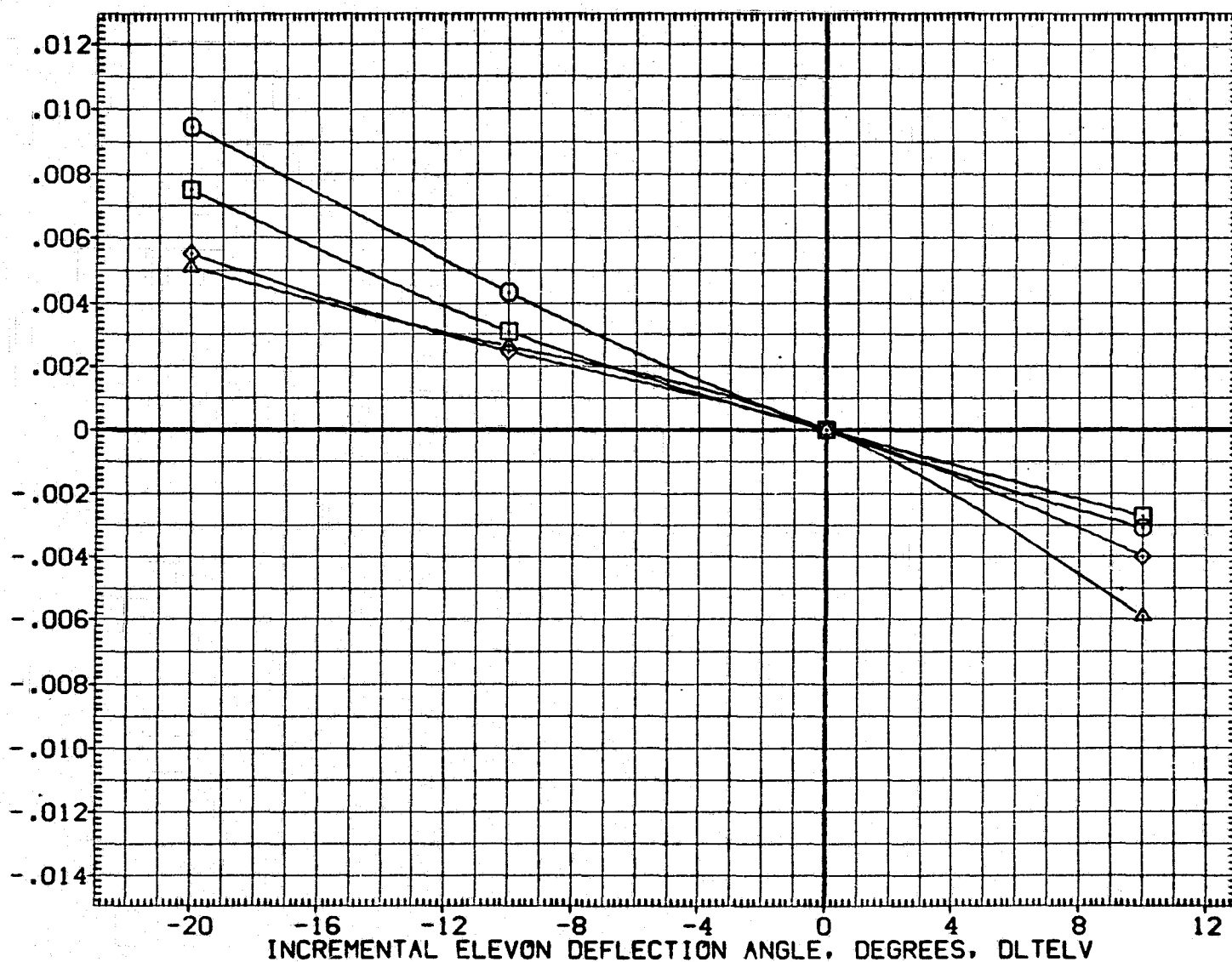


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV032)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	15.000		5.000 DLTEL1	.000 DATASET	DLTELO SREF 2690.0000 SQ.FT.
□	20.000	DLTERI	.000 BETA	.000 DTV032	DLTELO LREF 474.8100 IN.
◇	25.000	BDFLAP	.000 RUDDER	.000 DTV006	DLTELO DATASET DTV024 -10.000 BREF 936.6800 IN.
△	27.000				DLTELO DATASET DTV021 10.000 XMRP 1076.6800 IN.X0
					YMRP .0000 IN.Y0
					ZMRP 375.0000 IN.Z0
					SCALE .0150

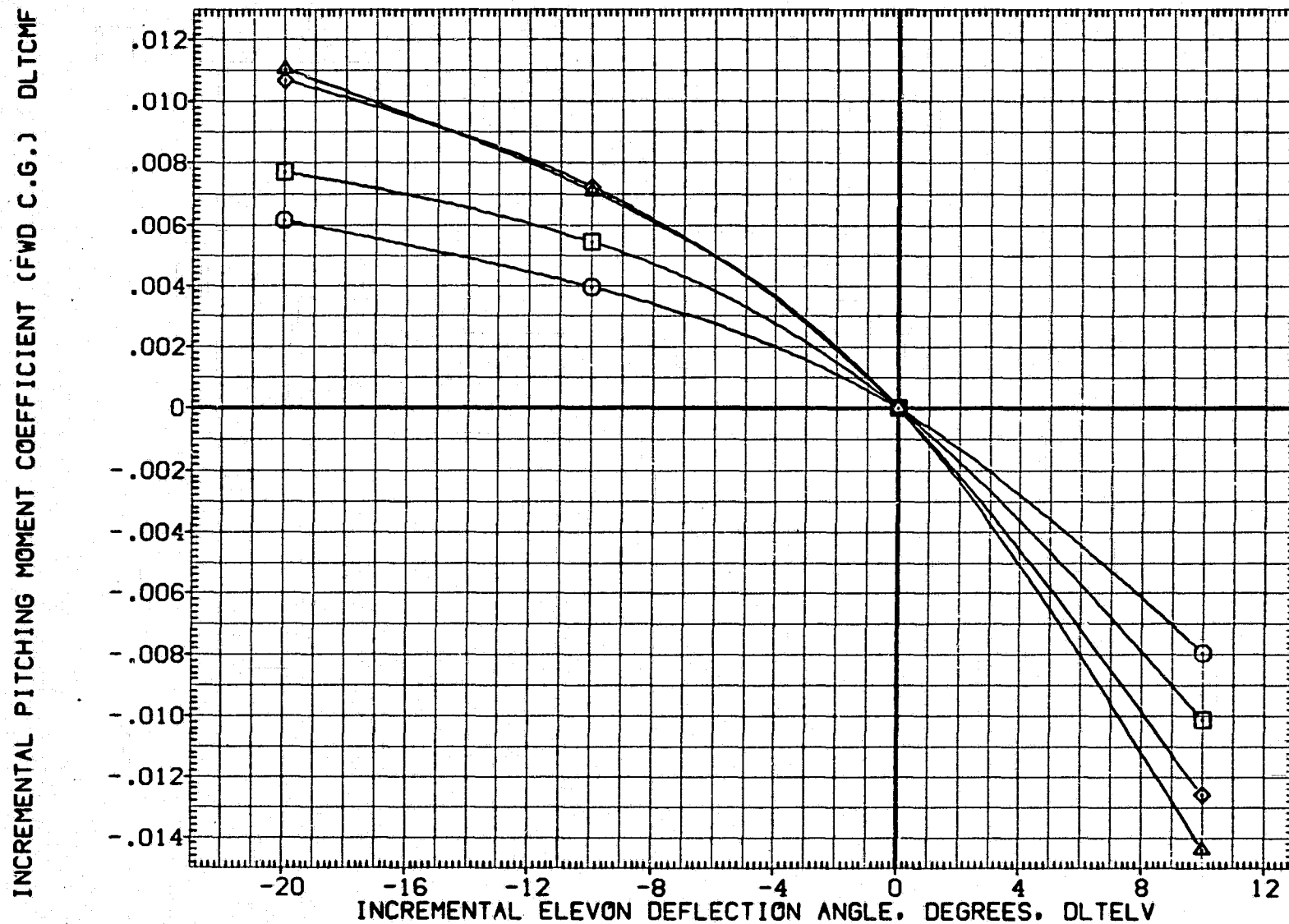


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV032)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH

DLTER1
BDFLAP

PARAMETRIC VALUES

5.000 DLTEL1
.000 BETA
.000 RUDDER

.000 DATASET
.000 DTV032
.000 DTV006

DATA SOURCE

DLTEL0
-20.000
.000
DTV024
DTV021

DLTEL0
-10.000
10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.) DLTCMA

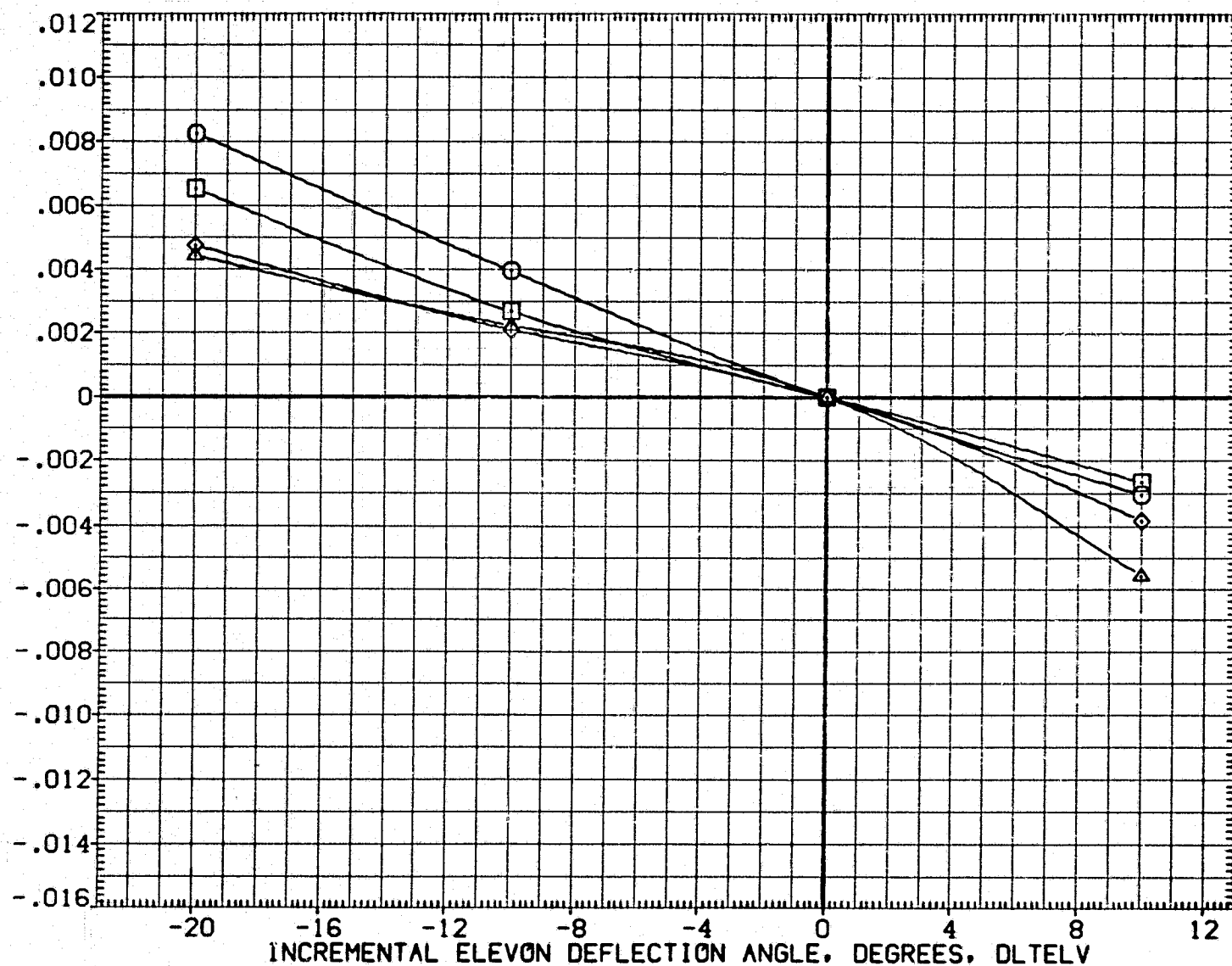


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV032)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	15.000	MACH	5.000	DLTEL1	.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	SQ.FT.
□	20.000	DLTER1	.000	BETA	.000	DTV032	-20.000	DTV024	-10.000	LREF	474.8100	IN.
◇	25.000	BDFLAP	.000	RUDDER	.000	DTV005	.000	DTV021	10.000	BREF	936.6800	IN.
△	27.000									XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

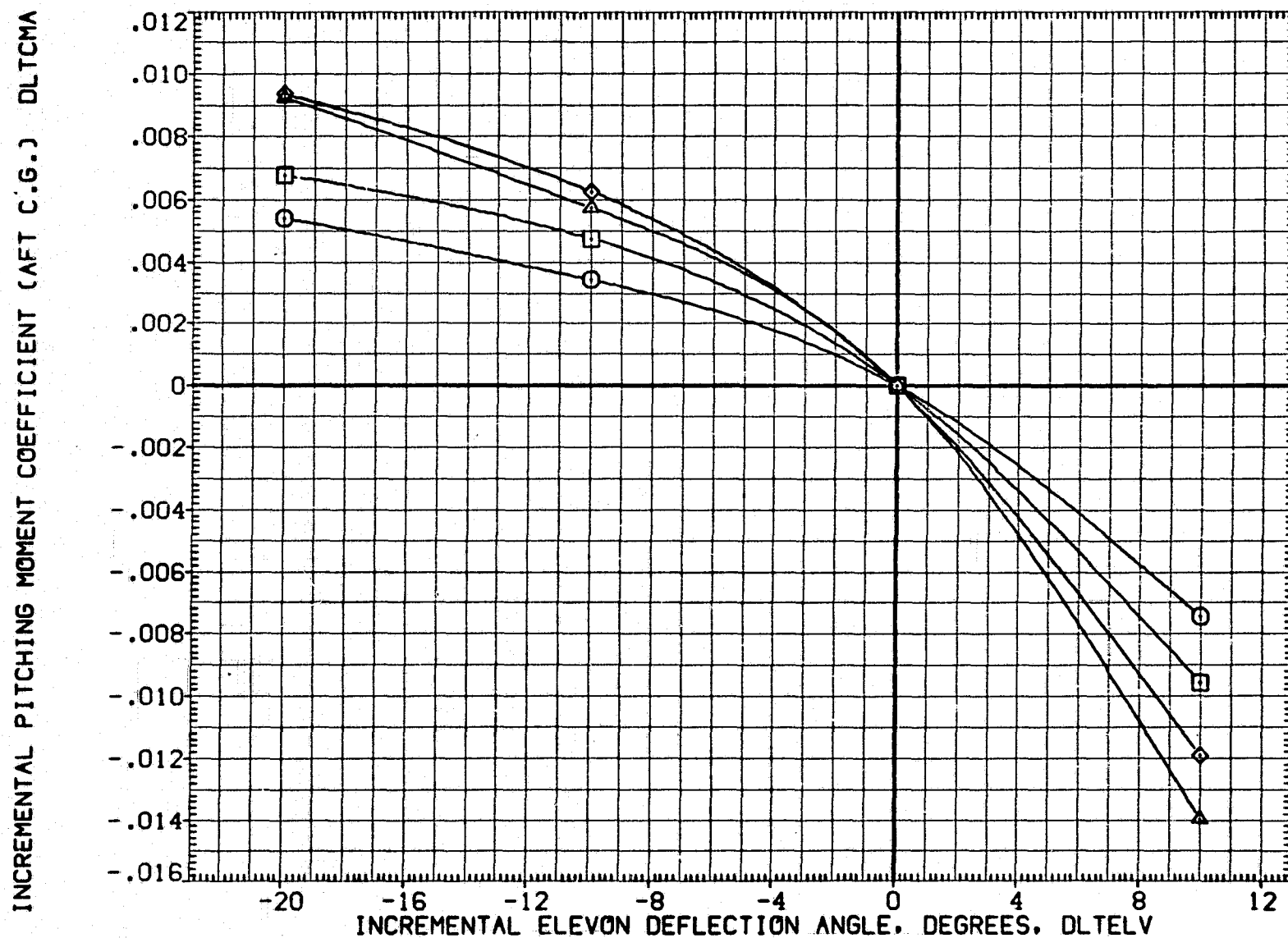


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV032)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000MACH
DLTERI
BDFLAP

PARAMETRIC VALUES

5.000 DLTELI
.000 BETA
.000 RUDDER.000 DATASET
.000 DTV032
.000 DTV006

DATA SOURCE

DLTELO
-20.000
.000
DATASET
DTV024
DTV021DLTELO
-10.000
10.000SREF
LREF
BREF
XMRP
YMRP
ZMRP
SCALE

REFERENCE INFORMATION

2690.0000 SQ.FT.
474.8100 IN.
936.6800 IN.
1076.6800 IN.X0
.0000 IN.Y0
375.0000 IN.Z0
.0150

INCREMENTAL AXIAL FORCE COEFFICIENT, DLTC

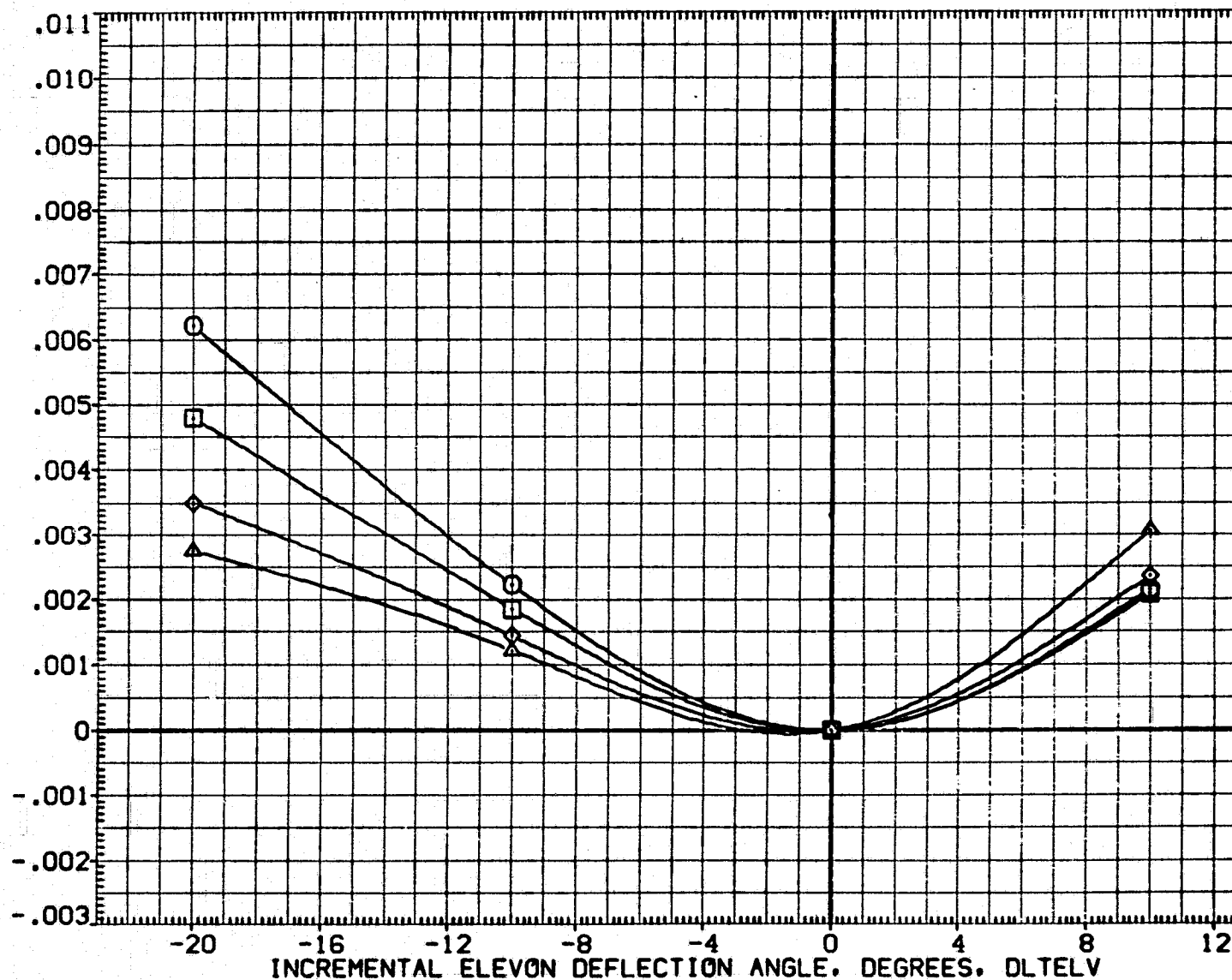


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV032)

SYMBOL

○
□
◇
△

ALPHA

15.000
20.000
25.000
27.000

MACH
DLTERI
BOFLAP

PARAMETRIC VALUES

5.000 DLTELI
.000 BETA
.000 RUDDER

.000 DATASET
.000 DTV032
.000 DTV006

DATA SOURCE

DLTELO
-20.000
.000
DTV024
DTV021

DLTELO
-10.000
10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL AXIAL FORCE COEFFICIENT, DLICA

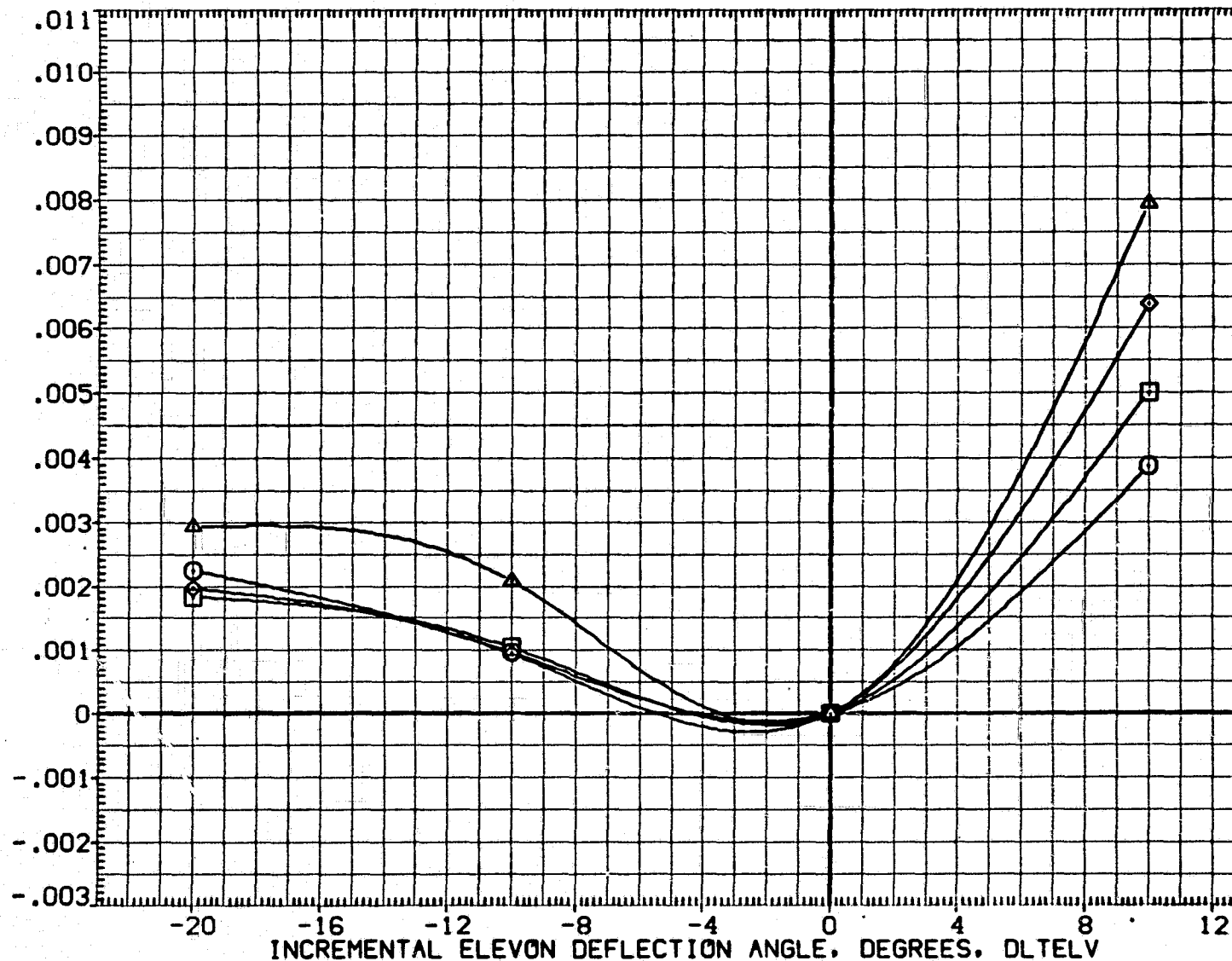


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV032)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	-3.000	MACH	5.000	DLTEL1	.000	DATASET	DLTELO	DATASET	DLTELO	SREF	2690.0000	SG.FT.
□	.000	DLTER1	.000	BETA	.000	DTV032	-20.000	DTV024	-10.000	LREF	474.8100	IN.
◇	5.000	BDFLAP	.000	RUDDER	.000	DTV006	.000	DTV021	10.000	BREF	936.6800	IN.
△	10.000									XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCF

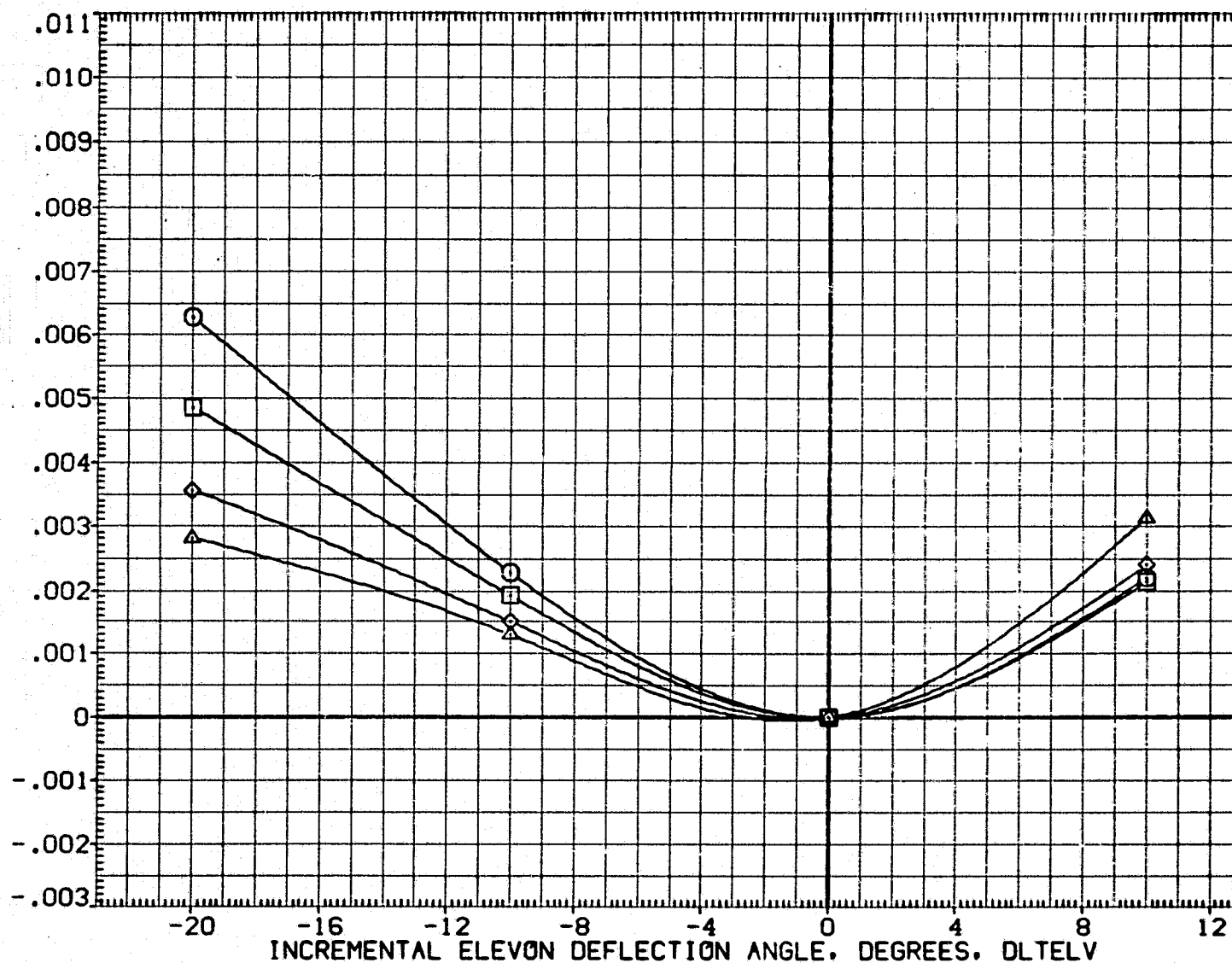


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV032)

SYMBOL

○
□
◇
△

ALPHA

15.000

MACH

20.000

25.000

27.000

PARAMETRIC VALUES

5.000

DLTELO

.000

BETA

.000

RUDDER

.000

DATASET

DTV032

DTV006

DATA SOURCE

DLTELO

-20.000

.000

DATASET

DTV024

DTV021

DLTELO

-10.000

10.000

REFERENCE INFORMATION

SREF

2690.0000

SQ.FT.

LREF

474.8100

IN.

BREF

936.6800

IN.

XMRP

1076.6800

IN.X3

YMRP

.0000

IN.Y3

ZMRP

375.0000

IN.Z3

SCALE

.0150

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCF

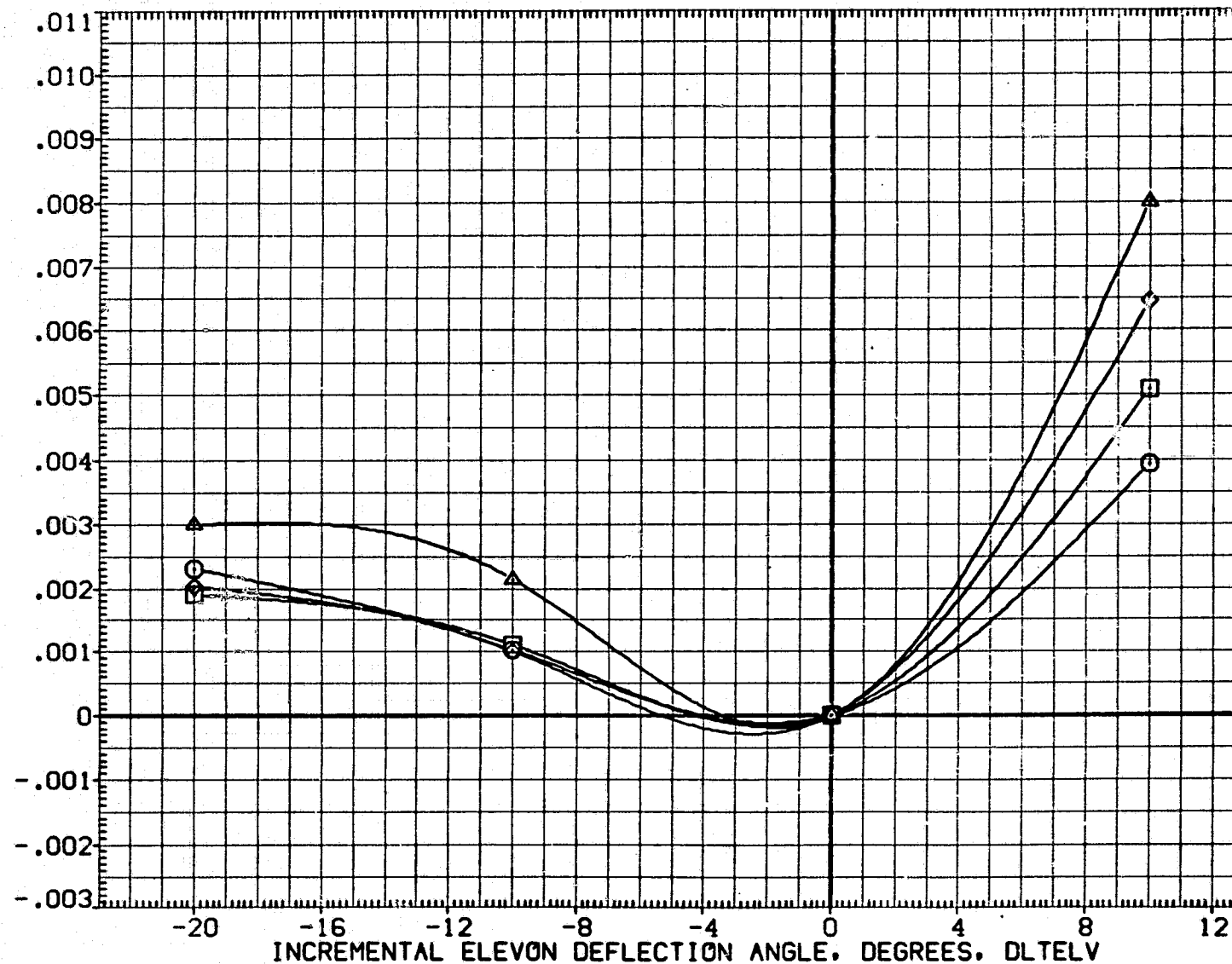


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL

○
□
◇
△

ALPHA

-2.000
.000
2.000
4.000

MACH
ELV-LI
BOFLAP

PARAMETRIC VALUES

5.000 BETA
.000 ELV-RI
.000 RUDDER

.000 DATASET
.000 ATV032
.000 ATV006

DATA SOURCE

ELV-L0
-20.000
.000

DATASET
ATV024
ATV021

ELV-L0
-10.000
10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

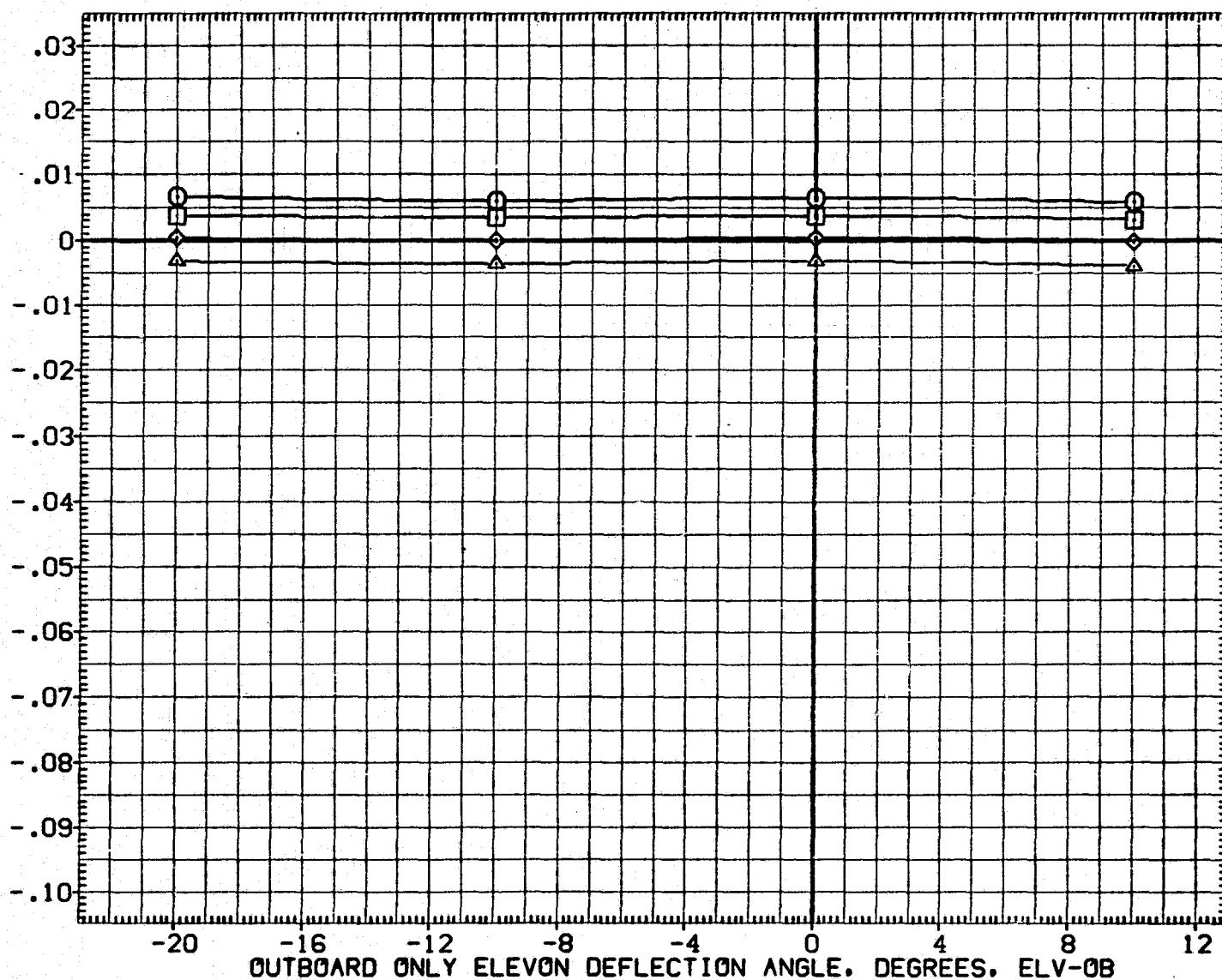


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL

○
□
◇
△

ALPHA

PARAMETRIC VALUES

DATA SOURCE

REFERENCE INFORMATION

6.000

MACH

5.000

BETA

.000

DATASET

ELV-L0

DATASET

ELV-L0

SREF

2690.0000

SQ.FT.

8.000

ELV-L1

.000

ELV-R1

.000

ATV032

-20.000

ATV024

-10.000

LREF

474.8100

IN.

10.000

BDFLAP

.000

RUDDER

.000

ATV006

.000

ATV021

10.000

BREF

936.6800

IN.

12.000

1076.6800

IN.X0

YMRP

.0000

IN.Y0

ZMRP

375.0000

IN.Z0

SCALE

.0150

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

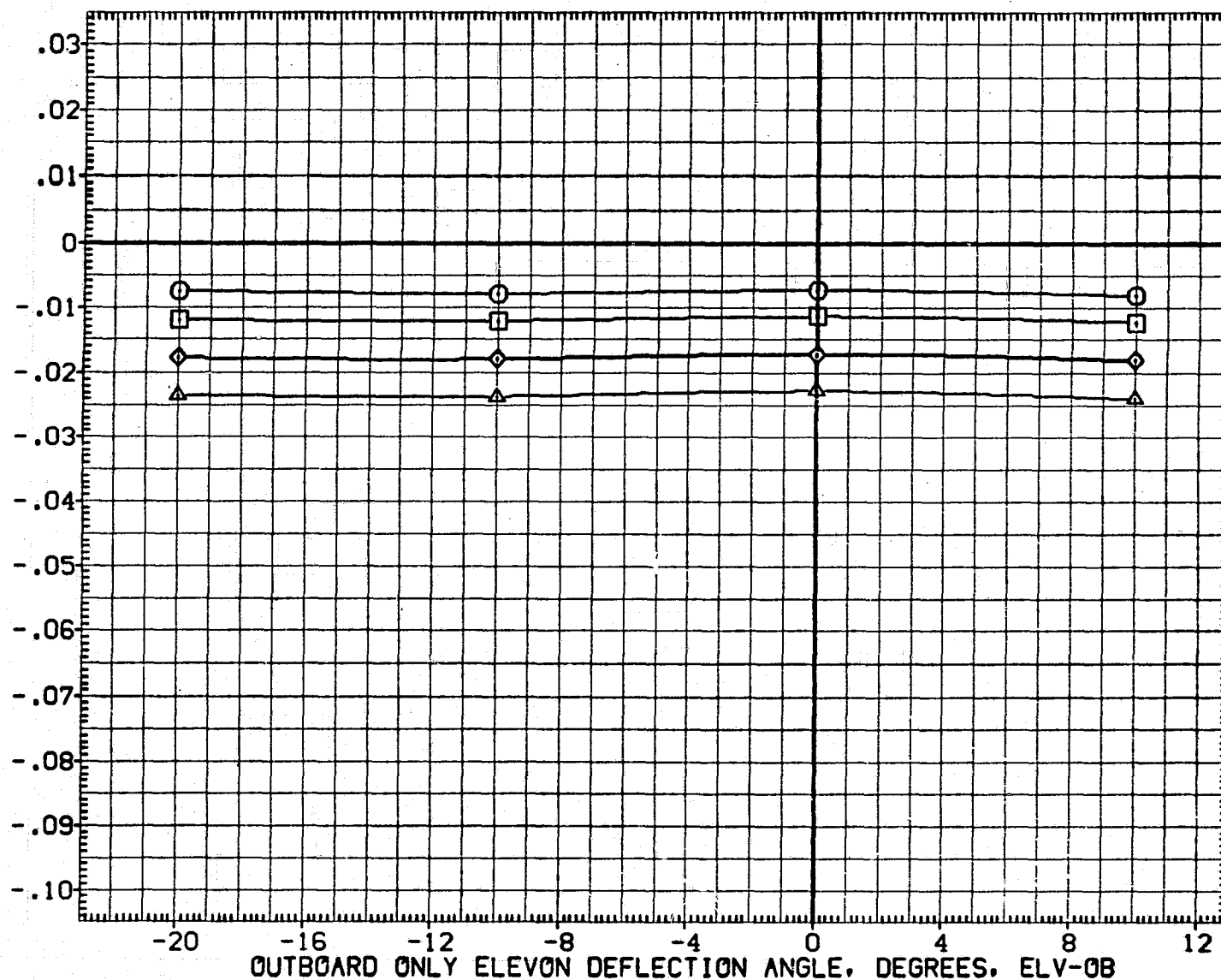


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL

○
□
◇
△

ALPHA

14.000
16.000
18.000
20.000

MACH

ELV-LI
BDFLAP

PARAMETRIC VALUES

5.000
.000
.000

BETA

ELV-RI
RUDDER

.000 DATASET
.000 ATV032
.000 ATV006

DATA SOURCE

ELV-L0
-20.000
.000

DATASET
ATV024
ATV021

ELV-L0
-10.000
10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

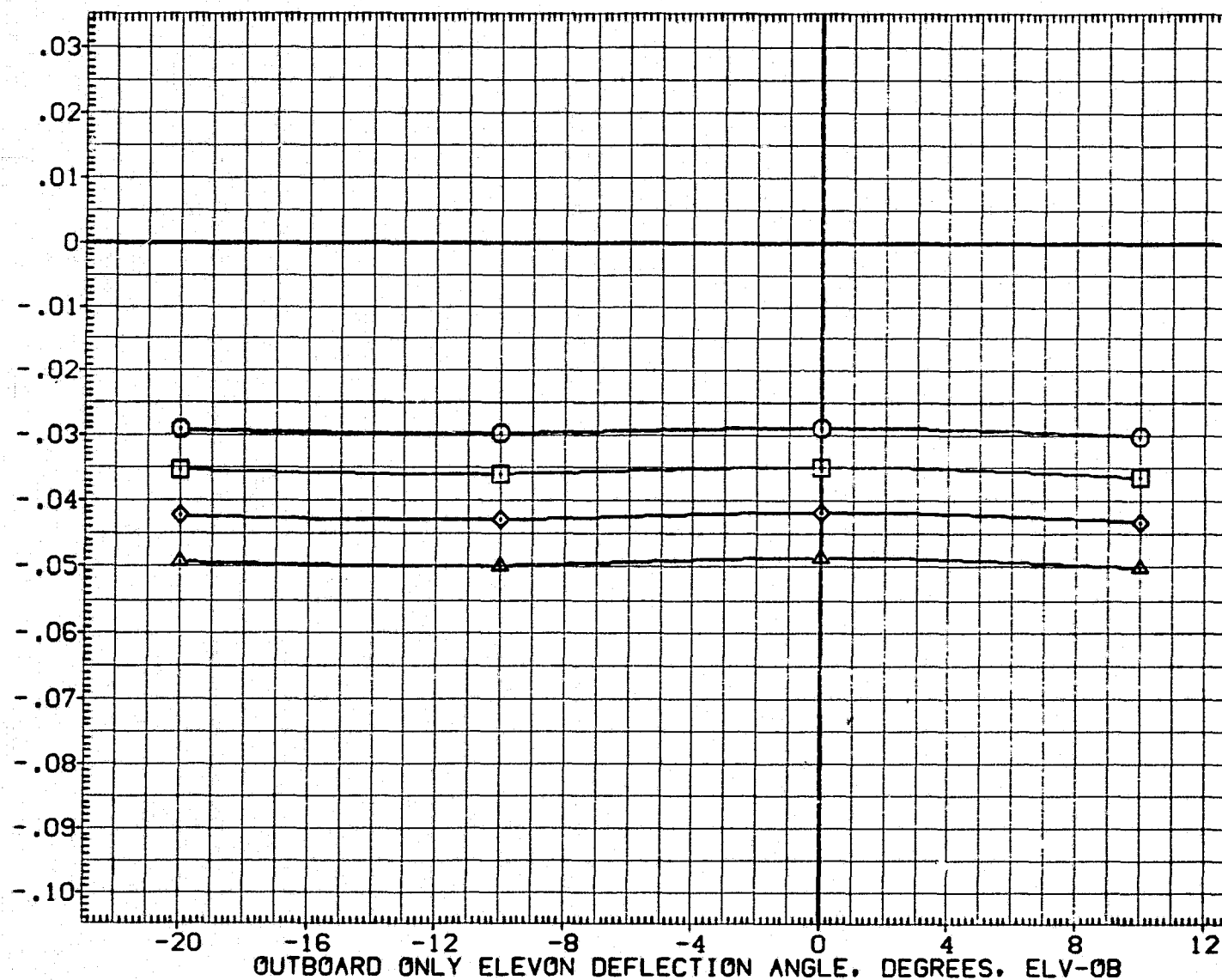


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE	ELV-L0	DATASET	ELV-L0	REFERENCE INFORMATION		
○	22.000		5.000	BETA	.000	DATASET	ELV-L0	SREF	2690.0000	SG.FT.	
□	24.000	ELV-LI	.000	ELV-RI	.000	ATV032	-20.000	LREF	474.8100	IN.	
◇	26.000	BDFLAP	.000	RUDDER	.000	ATV006	.000	BREF	936.6800	IN.	
								XMRP	1076.6800	IN.X0	
								YMRP	.0000	IN.Y0	
								ZMRP	375.0000	IN.Z0	
								SCALE	.0150		

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

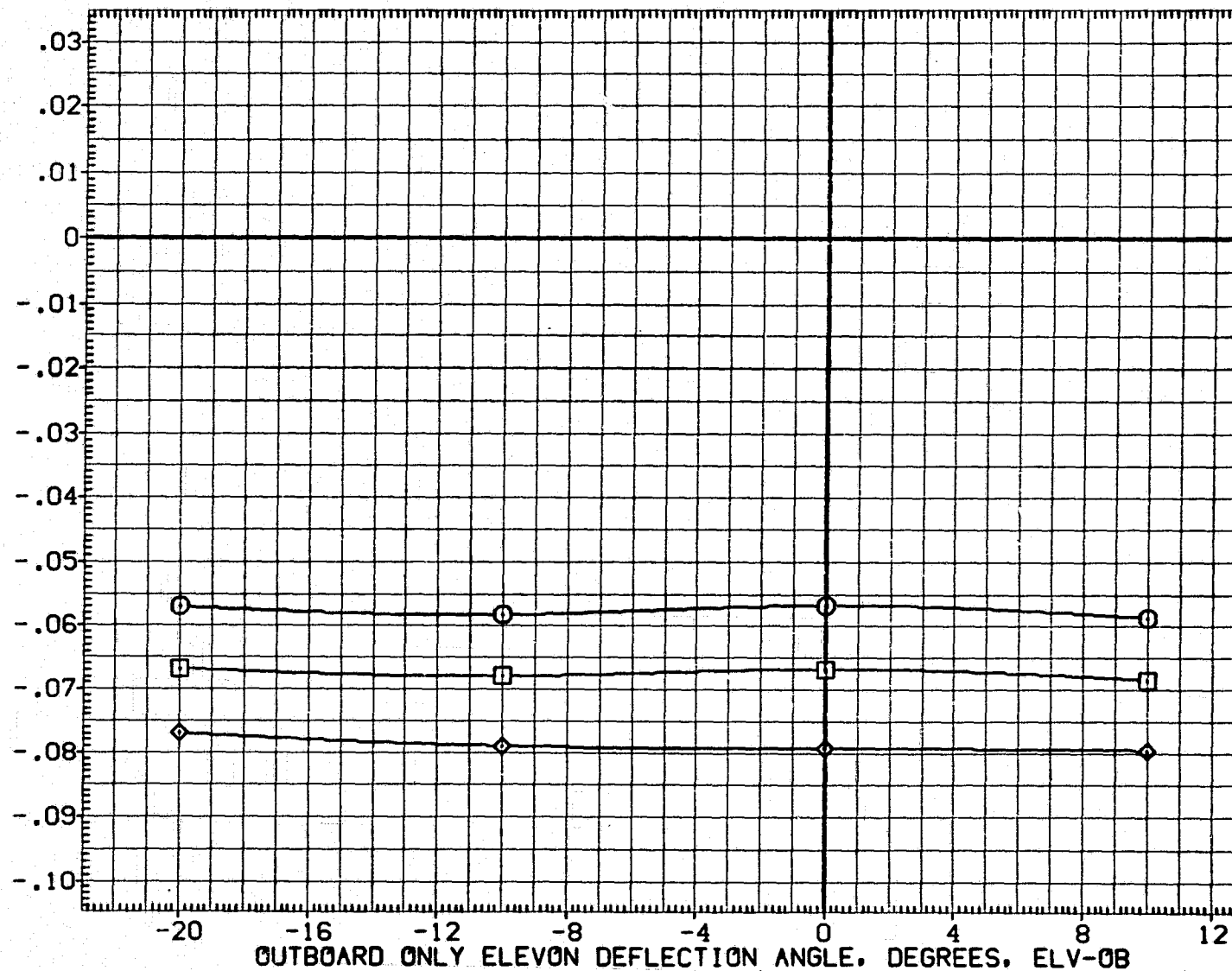


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL

○
□
◇
△

ALPHA

-2.000
.000
2.000
4.000

MACH

ELV-LI

BDFLAP

PARAMETRIC VALUES

5.000

BETA

ELV-RI

RUDDER

.000 DATASET

.000 ATV032

.000 ATV006

DATA SOURCE

ELV-L0

-20.000

.000

DATASET

ATV024

ATV021

ELV-L0

-10.000

10.000

SREF

LREF

HREF

XMRP

YMRP

ZMRP

SCALE

REFERENCE INFORMATION

2590.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

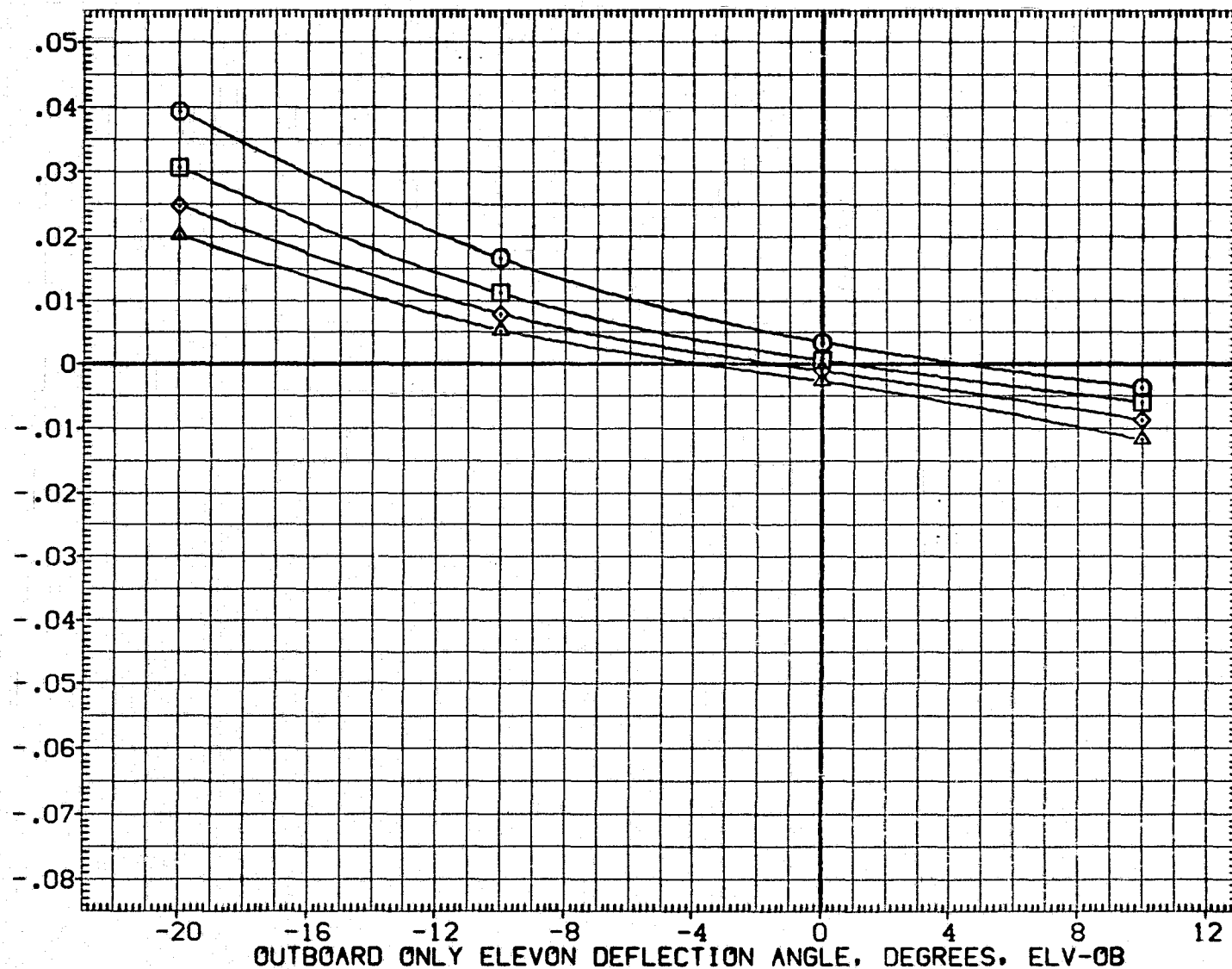


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL

○
□
◇
△

ALPHA

6.000

MACH

8.000

ELV-L1

10.000

BOFLAP

12.000

PARAMETRIC VALUES

5.000

BETA

.000

ELV-R1

.000

RUDDER

.000

.000 DATASET

.000 ATV032

.000 ATV006

DATA SOURCE

ELV-L0

-20.000

.000

DATASET

ATV024

ATV021

ELV-L0

-10.000

10.000

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

REFERENCE INFORMATION

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

50.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

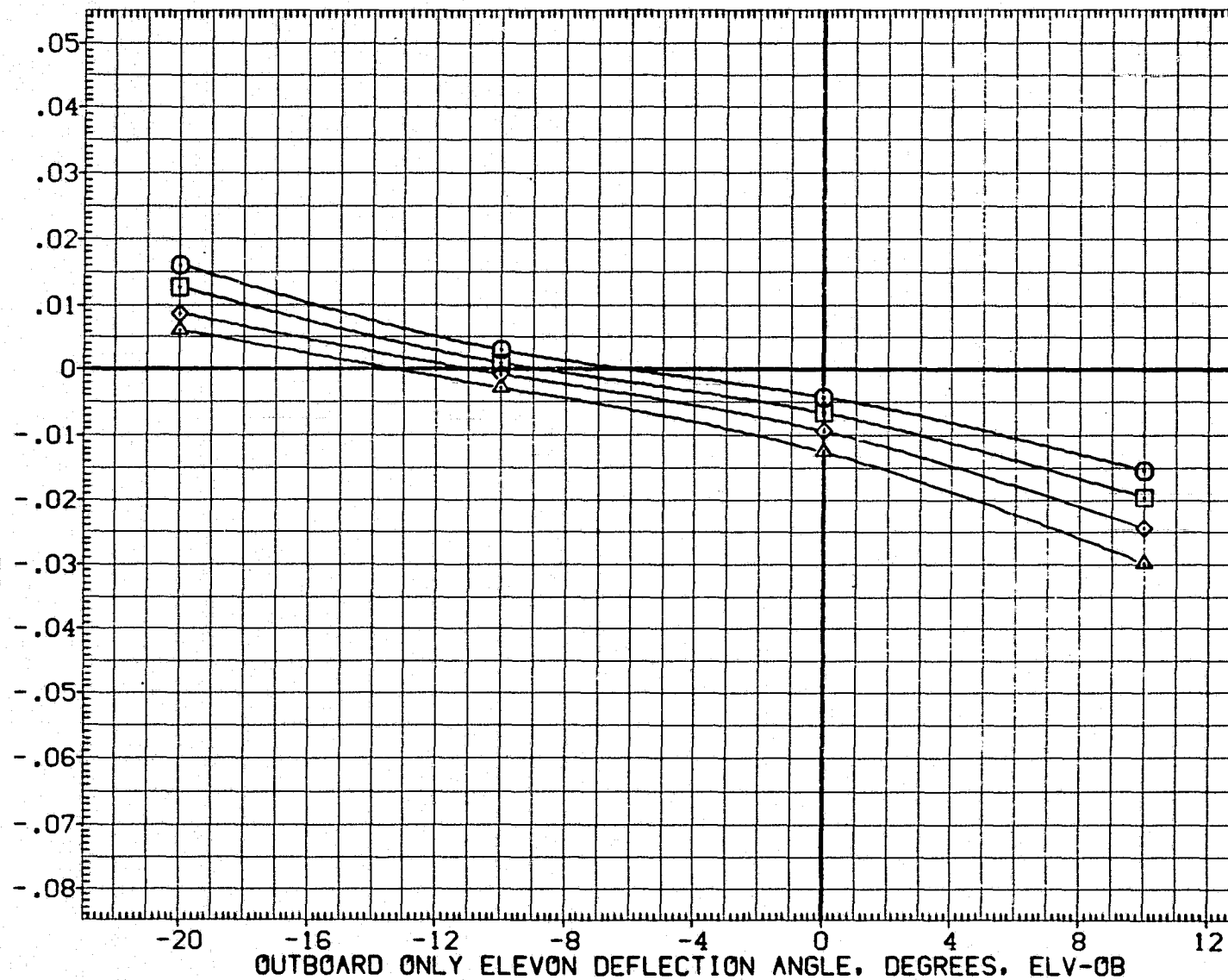


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL

○
□
◇
△

ALPHA

14.000

MACH

16.000

ELV-LI

18.000

SOFLAP

20.000

PARAMETRIC VALUES

5.000

BETA

.000

ELV-RI

.000

RUDDER

.000

.000 DATASET

.000 ATV032

.000 ATV006

DATA SOURCE

ELV-L0

-20.000

.000

DATASET

ATV024

ATV021

ELV-L0

-10.000

10.000

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8100

BREF 936.6800

XMRP 1076.6800

YMRP .0000

ZMRP 375.0000

SCALE .0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

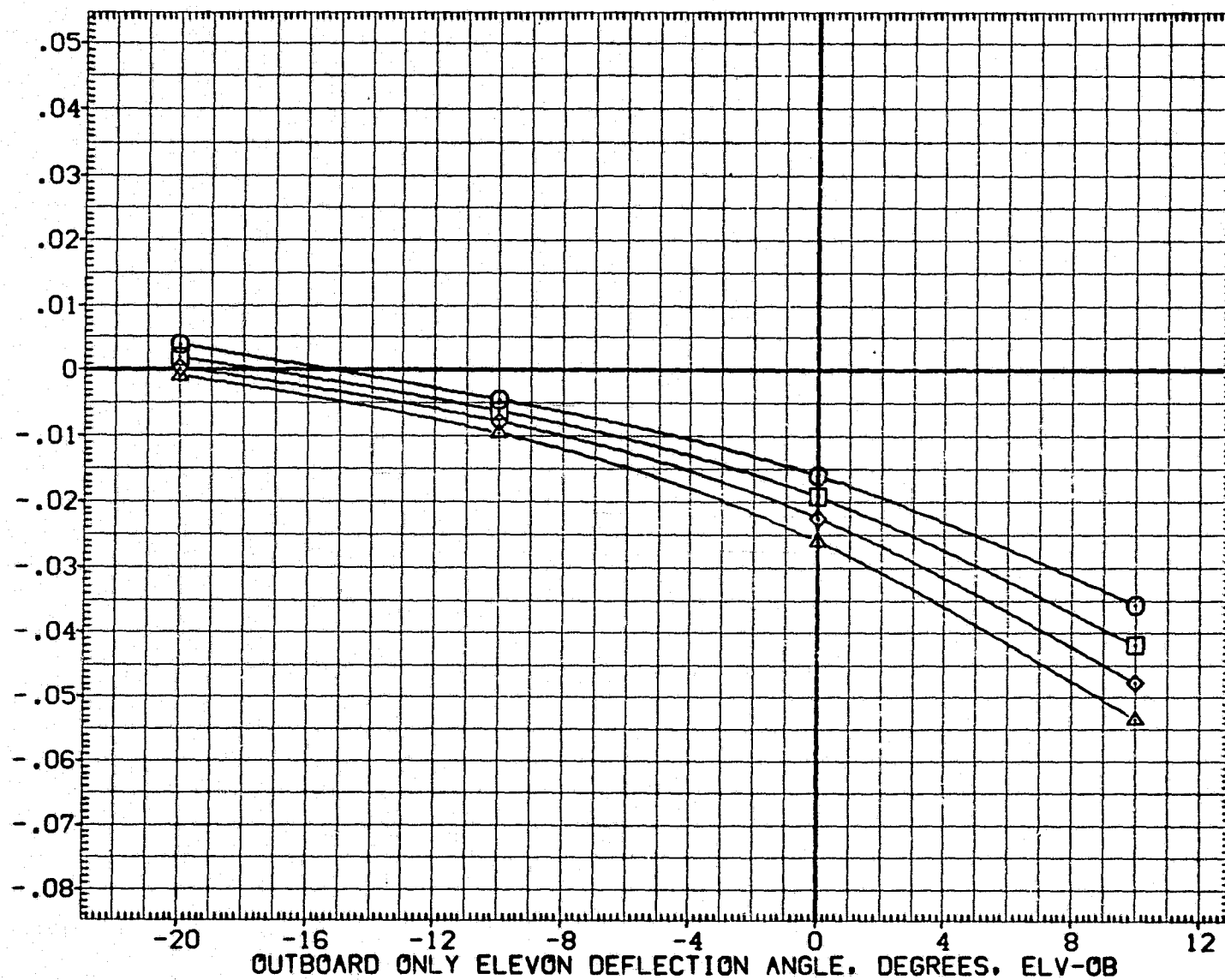


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL

○
□
◇

ALPHA

22.000

MACH

24.000

26.000

PARAMETRIC VALUES

5.000

BETA

.000

ELV-RI

.000

RUDDER

.000 DATASET

.000 ATV032

.000 ATV006

DATA SOURCE

ELV-L0

-20.000

.000

DATASET

ATV024

ATV021

ELV-L0

-10.000

10.000

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

REFERENCE INFORMATION

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

50.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

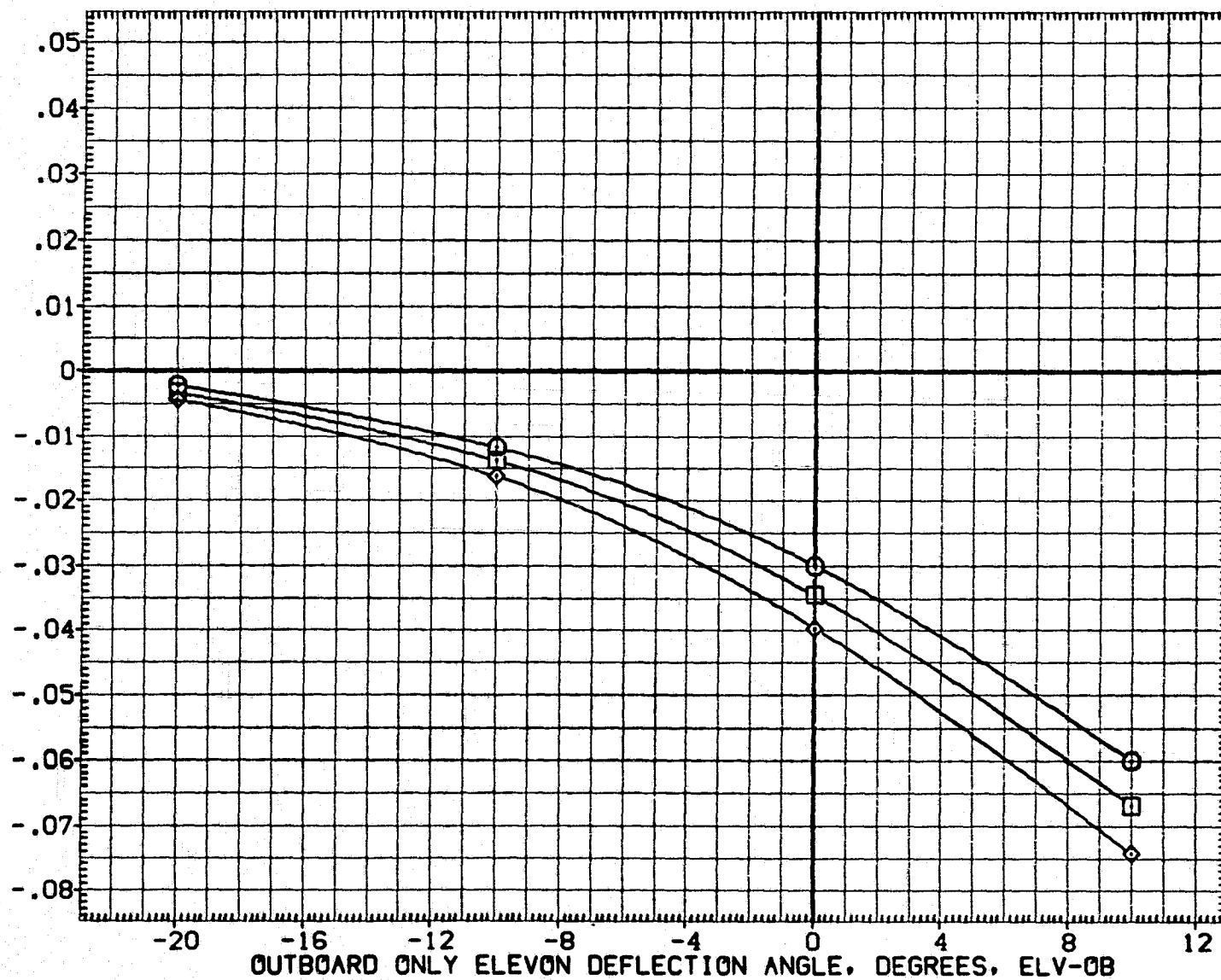


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL

○
□
◇
△

ALPHA

-2.000
.000
2.000
4.000MACH
ELV-LI
BDFLAP

PARAMETRIC VALUES

5.000 BETA
.000 ELV-RI
.000 RUDDER.000 DATASET
.000 ATV032
.000 ATV006

DATA SOURCE

ELV-L0
-20.000
.000DATASET
ATV024
ATV021ELV-L0
-10.000
10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

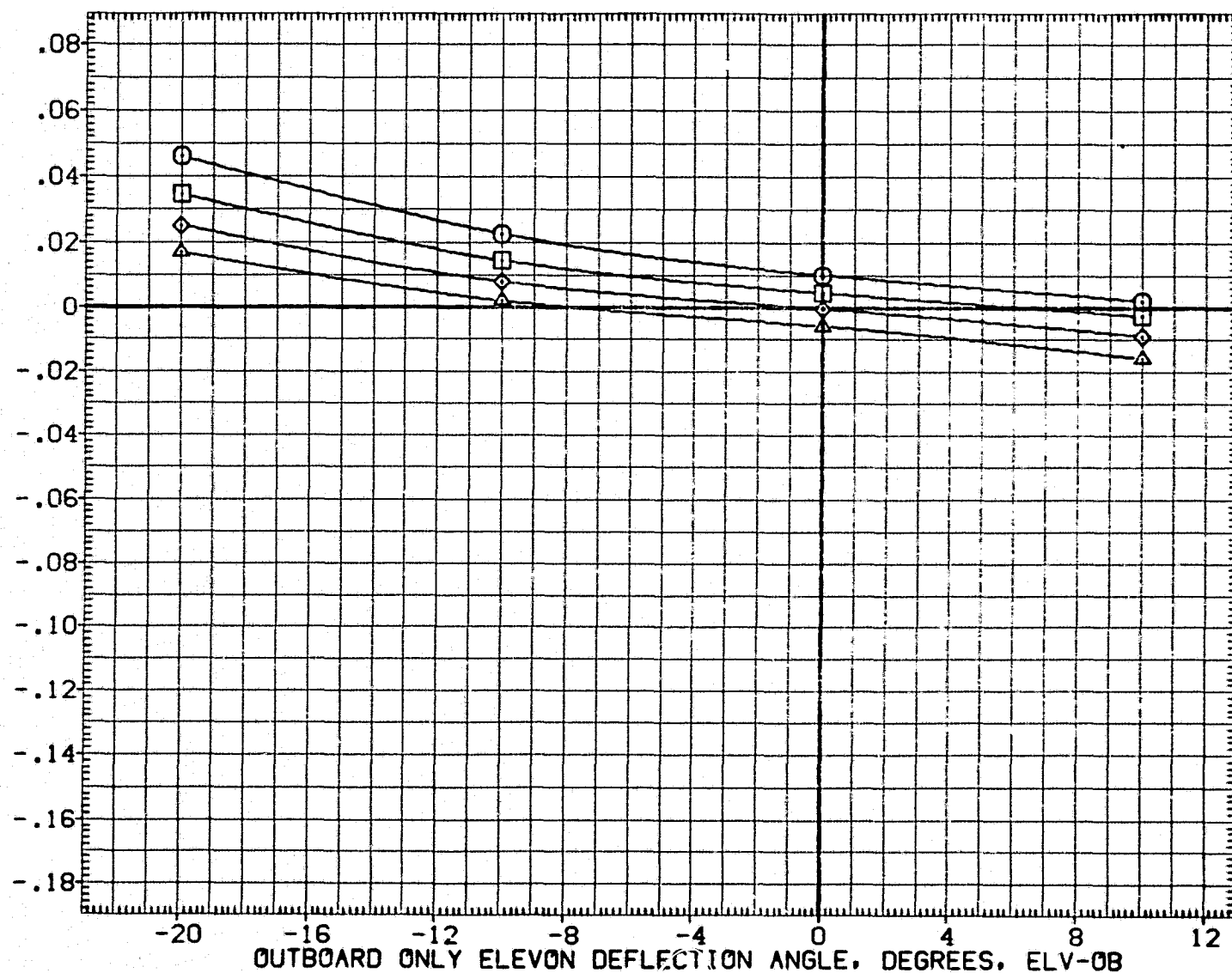


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL
 ○
 □
 ◇
 △

ALPHA
 6.000
 8.000
 10.000
 12.000

MACH
 ELV-LI
 BOFLAP

PARAMETRIC VALUES
 5.000 BETA
 .000 ELV-RI
 .000 RUDDER

.000 DATASET
 .000 ATV032
 .000 ATV006

DATA SOURCE
 ELV-L0
 -20.000
 .000

DATASET
 ATV024
 ATV021
 10.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1076.6800 IN.X0
 YMRP .0000 IN.Y0
 ZMRP 375.0000 IN.Z0
 SCALE .0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

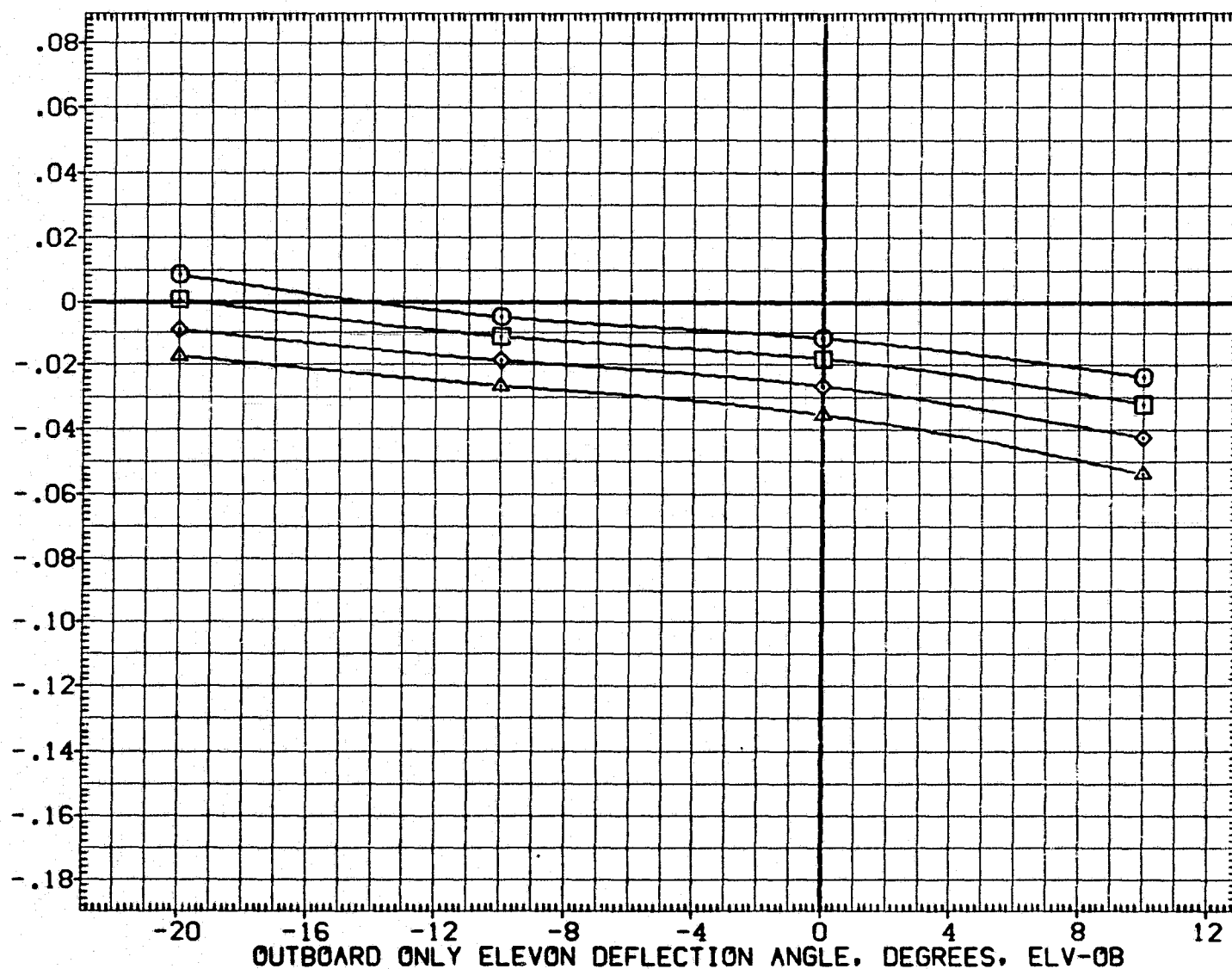


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL

○
□
◇
△

ALPHA

14.000 MACH
16.000 ELV-LI
18.000 BOFLAP
20.000

PARAMETRIC VALUES

5.000 BETA
.000 ELV-RI
.000 RUDDER.000 DATASET
.000 ATV032
.000 ATV006

DATA SOURCE

ELV-L0
-20.000
.000DATASET
ATV024
ATV021ELV-L0
-10.000
10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

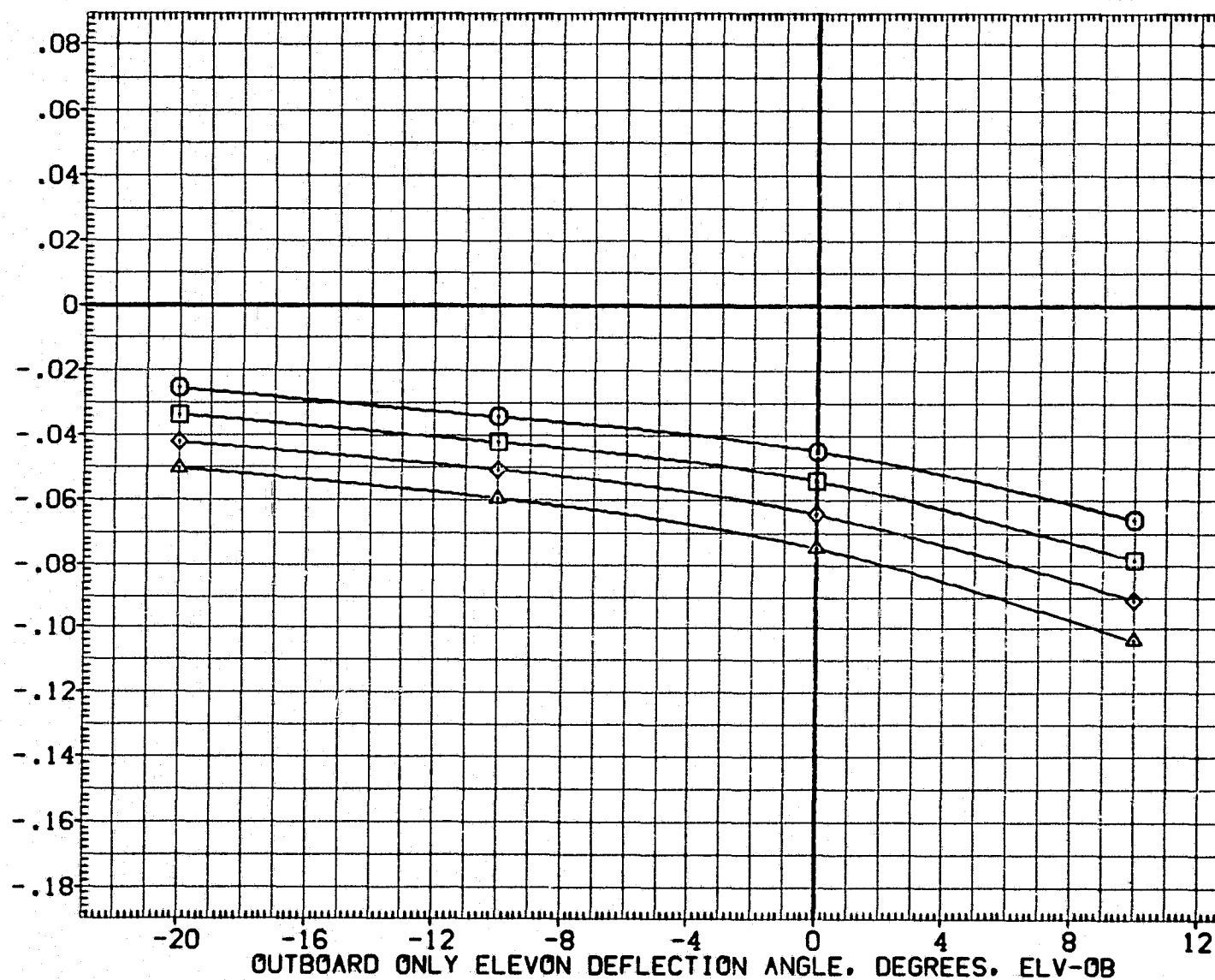


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV032)

SYMBOL

○
□
◇

ALPHA

22.000

MACH

24.000

26.000

PARAMETRIC VALUES

5.000

BETA

.000

.000

.000

.000 DATASET

.000 ATV032

.000 ATV006

DATA SOURCE

ELV-L0

-20.000

.000

DATASET

ATV024

ATV021

ELV-L0

-10.000

10.000

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8100

BREF 936.6800

XMRP 1076.6800

YMRP .0000

ZMRP 375.0000

SCALE .0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

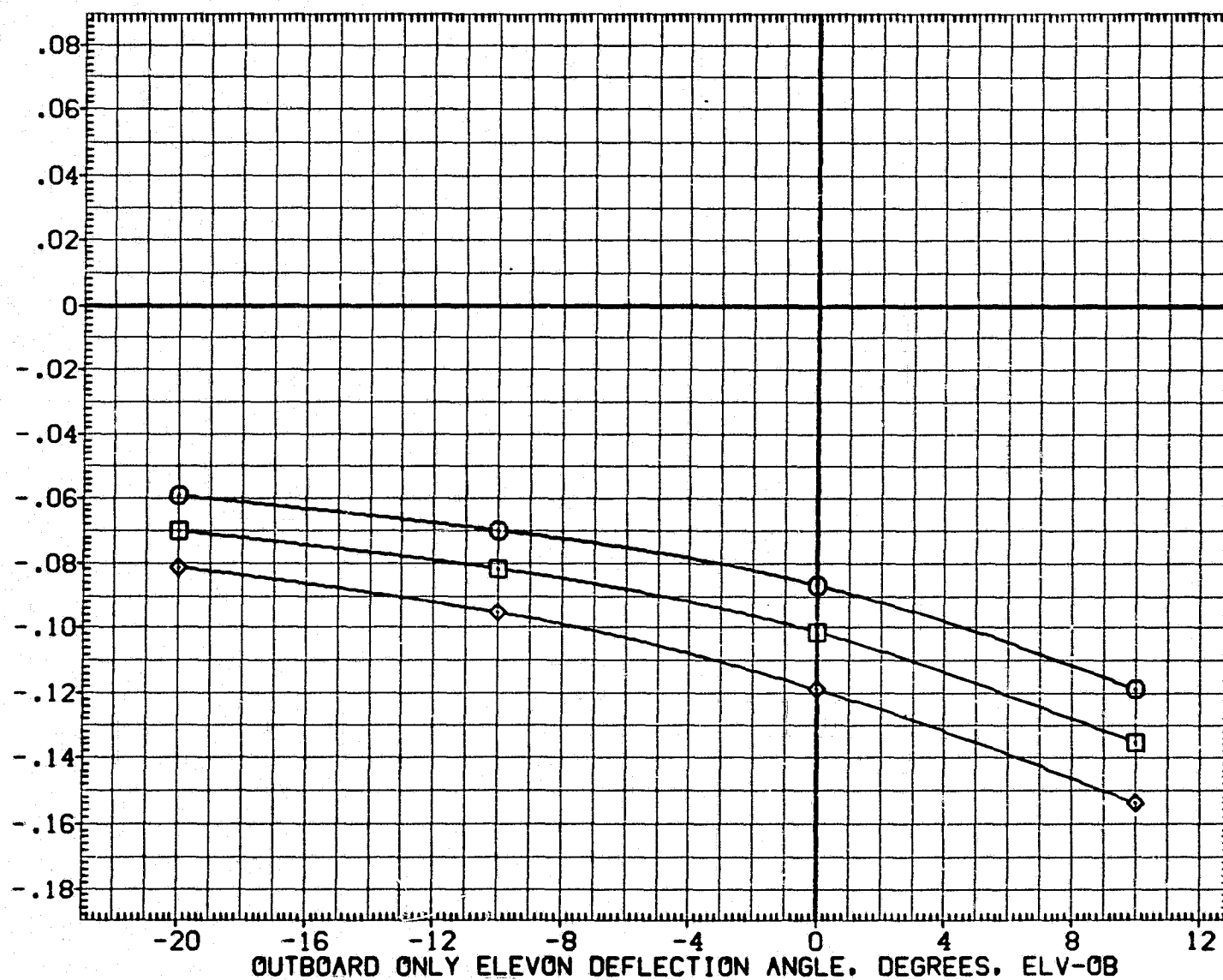


FIG. 15 ELEVON HINGE MOMENTS - OUTBOARD ELEVONS ONLY DEFLECTED

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO18)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO17)	◇	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO16)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO06)	○	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
-10.000	-10.000	10.000	10.000	SREF	2690.0000	50.FT.
-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
.000	.000	.000	.000	XMRP	1076.6800	IN.X0
				YMRP	.0000	IN.Y0
				ZMRP	375.0000	IN.Z0
				SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

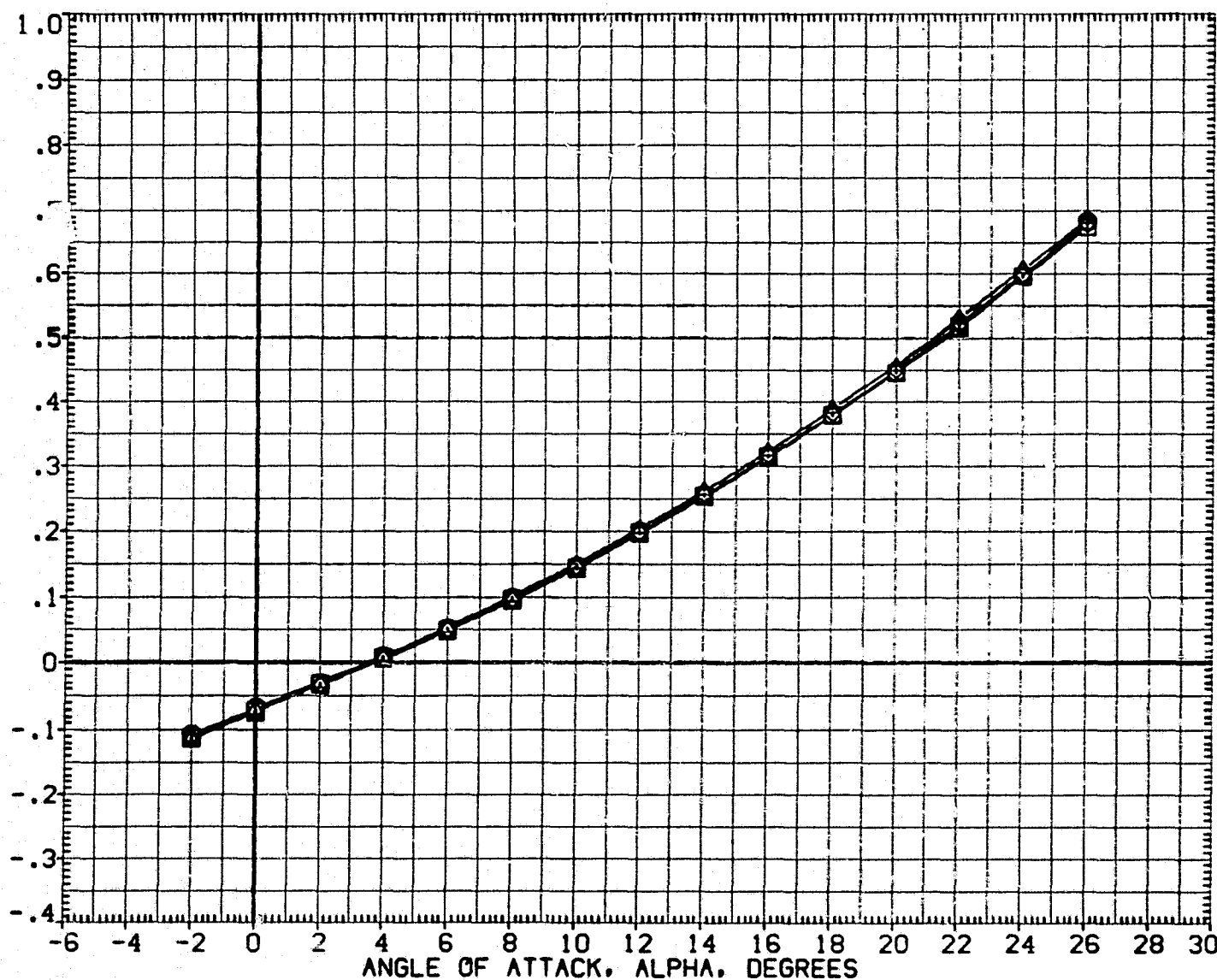


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVD18)	BA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	10.000	10.000	SREF	2690.0000	SQ.FT.
(BTVD17)	BA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
(BTVD16)	BA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
(BTVD06)	BA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

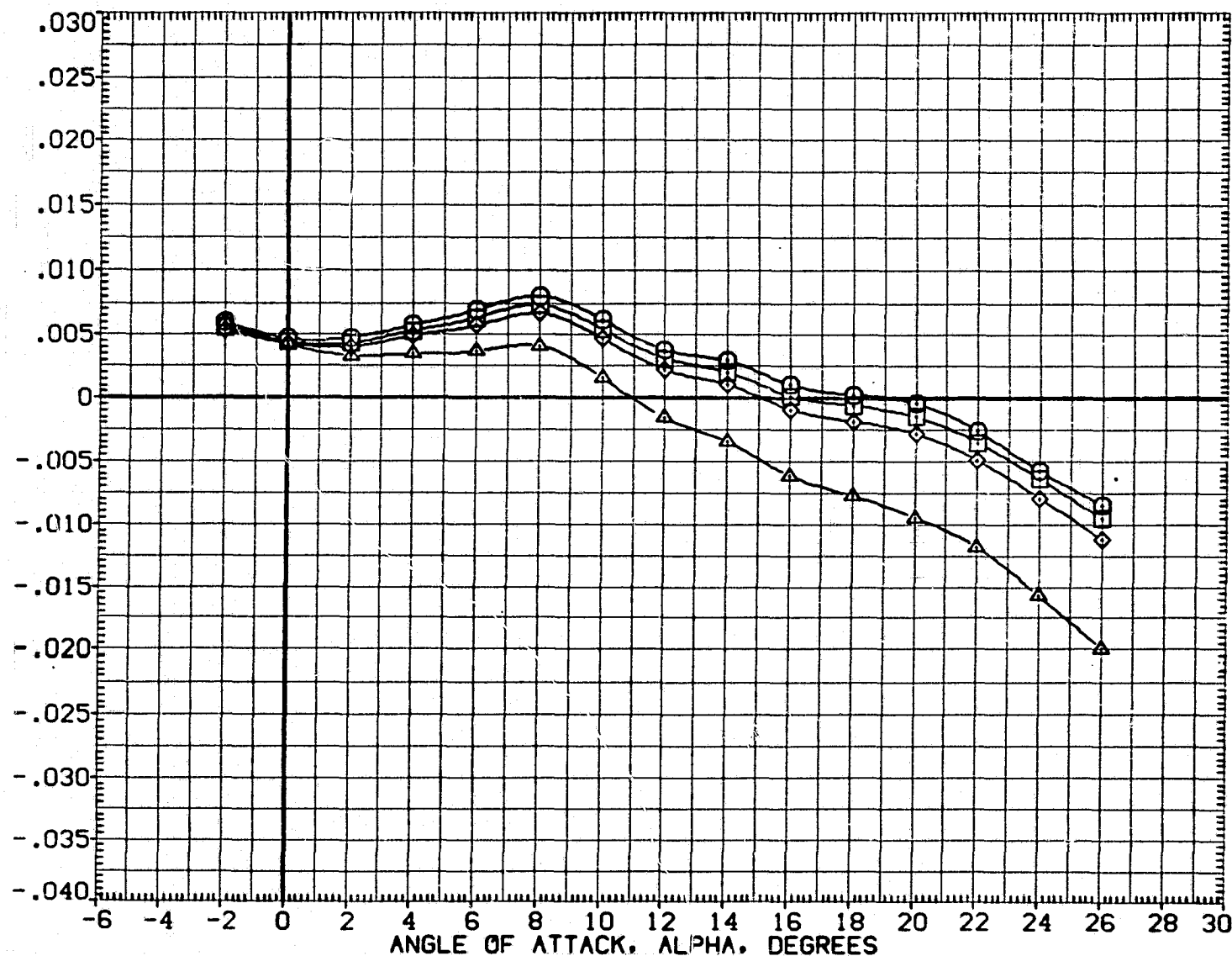
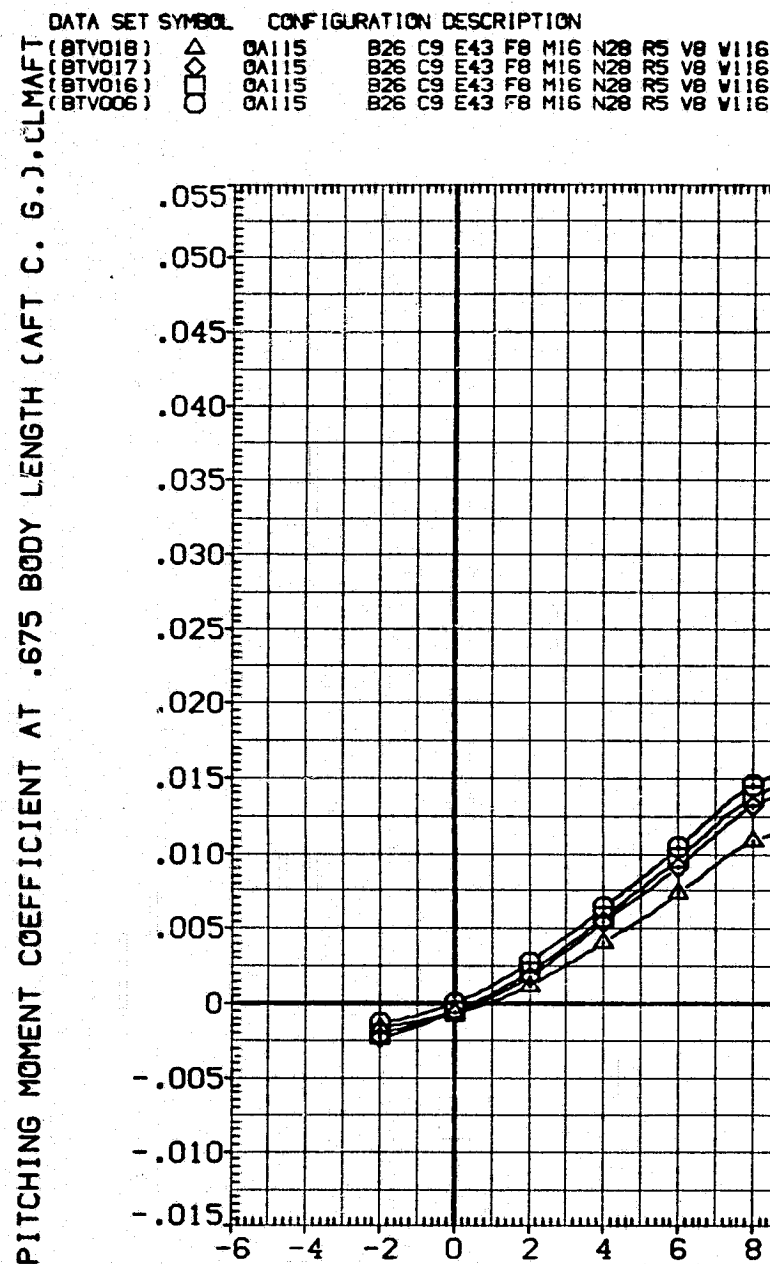


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00



ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
-10.000	-10.000	10.000	10.000	SREF	2690.0000 SQ.FT.
-5.000	-5.000	5.000	5.000	LREF	474.8100 IN.
-2.000	-2.000	2.000	2.000	BREF	936.6800 IN.
.000	.000	.000	.000	XMRP	1076.6800 IN.X0
				YMRP	.0000 IN.Y0
				ZMRP	375.0000 IN.Z0
				SCALE	.0150

FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH (FORWARD C. G.), CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO18)	△ OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	10.000	10.000	SREF	2690.0000	SQ.FT.
(BTVO17)	◇ OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
(BTVO16)	□ OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
(BTVO06)	○ OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

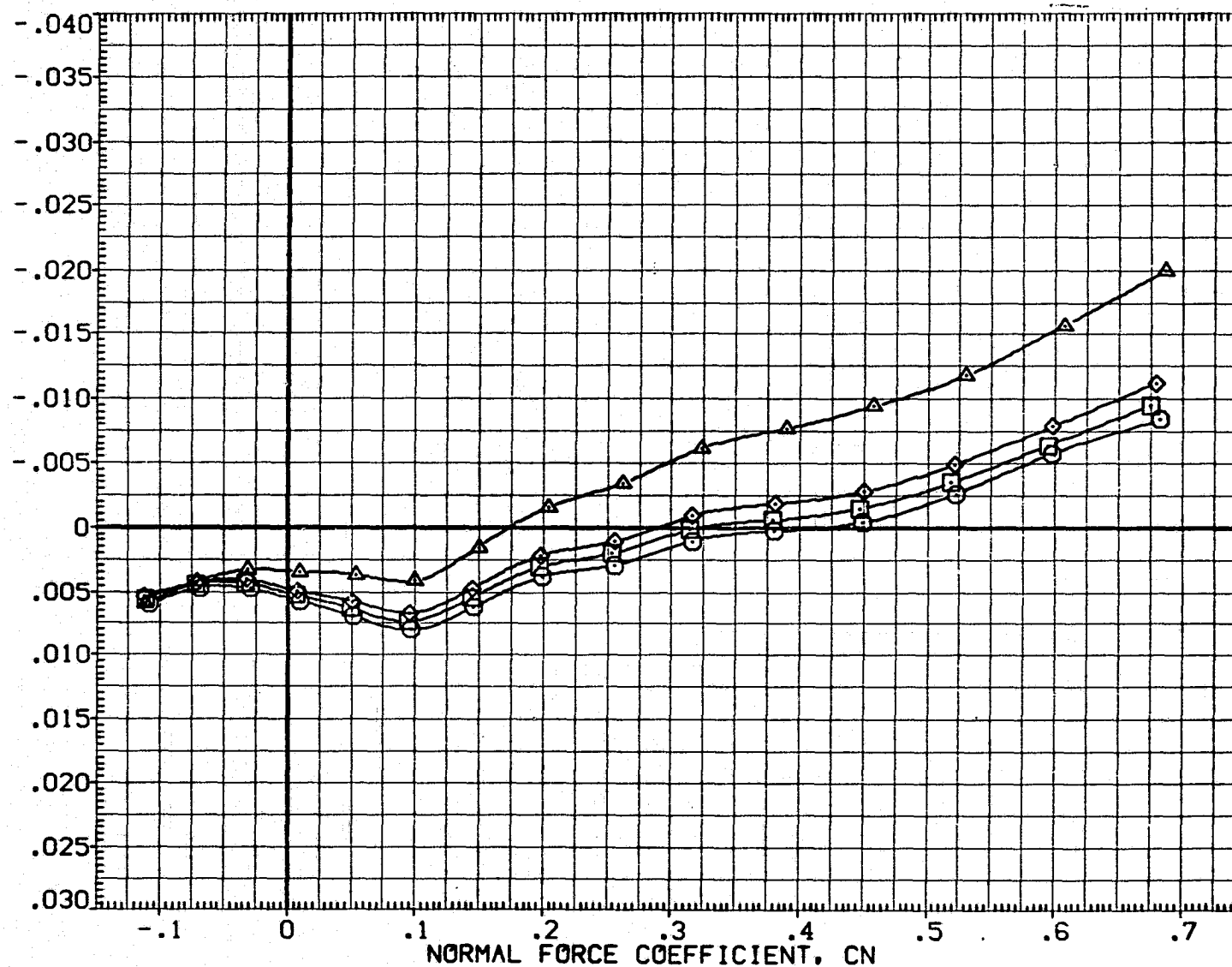
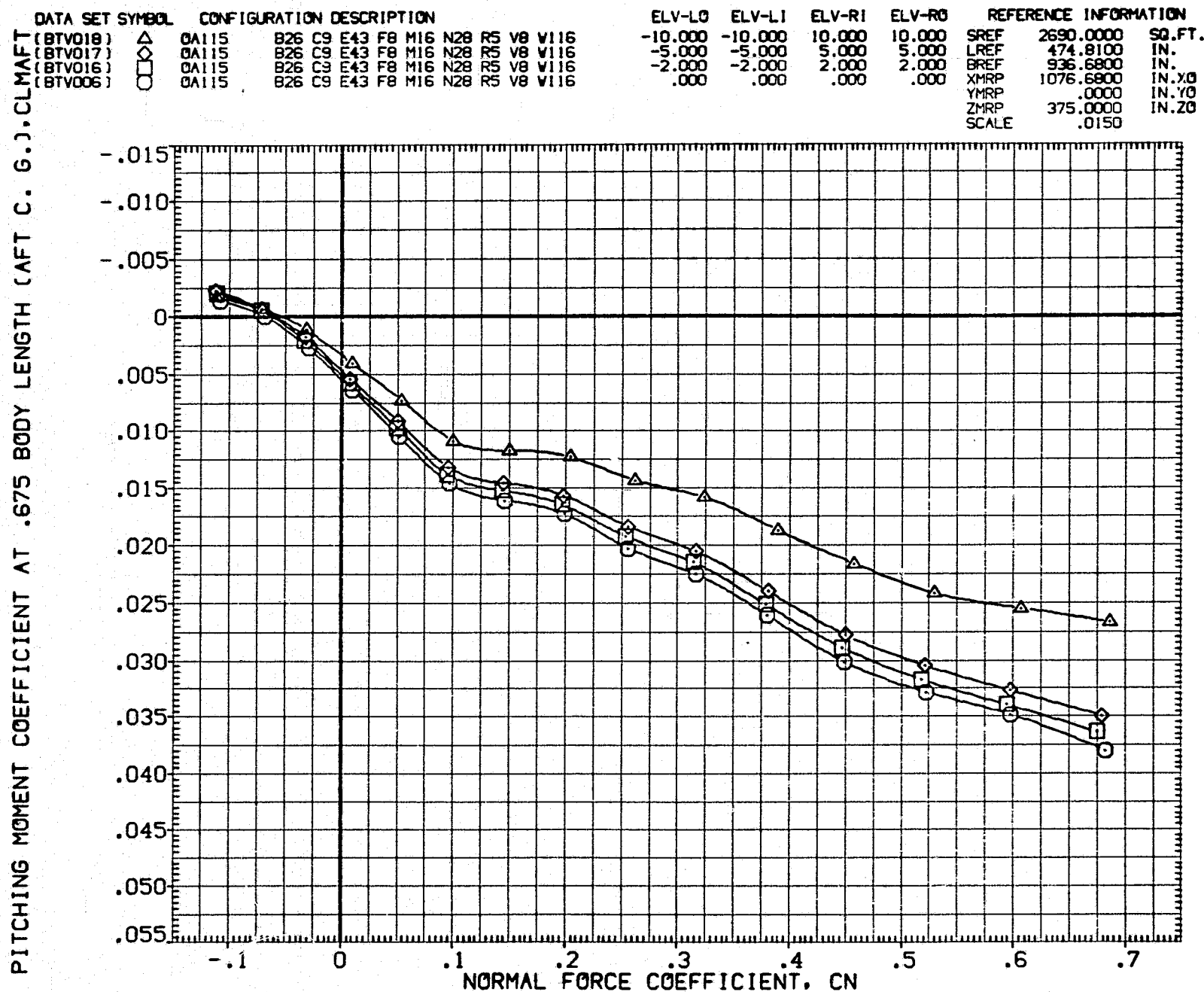


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)
(A) MACH = 5.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO18)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	10.000	10.000	SREF	2690.0000	SQ.FT.
(BTVO17)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
(BTVO16)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
(BTVO06)	0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

CENTER OF PRESSURE LOCATION-AS A FRACTION OF BODY LENGTH.

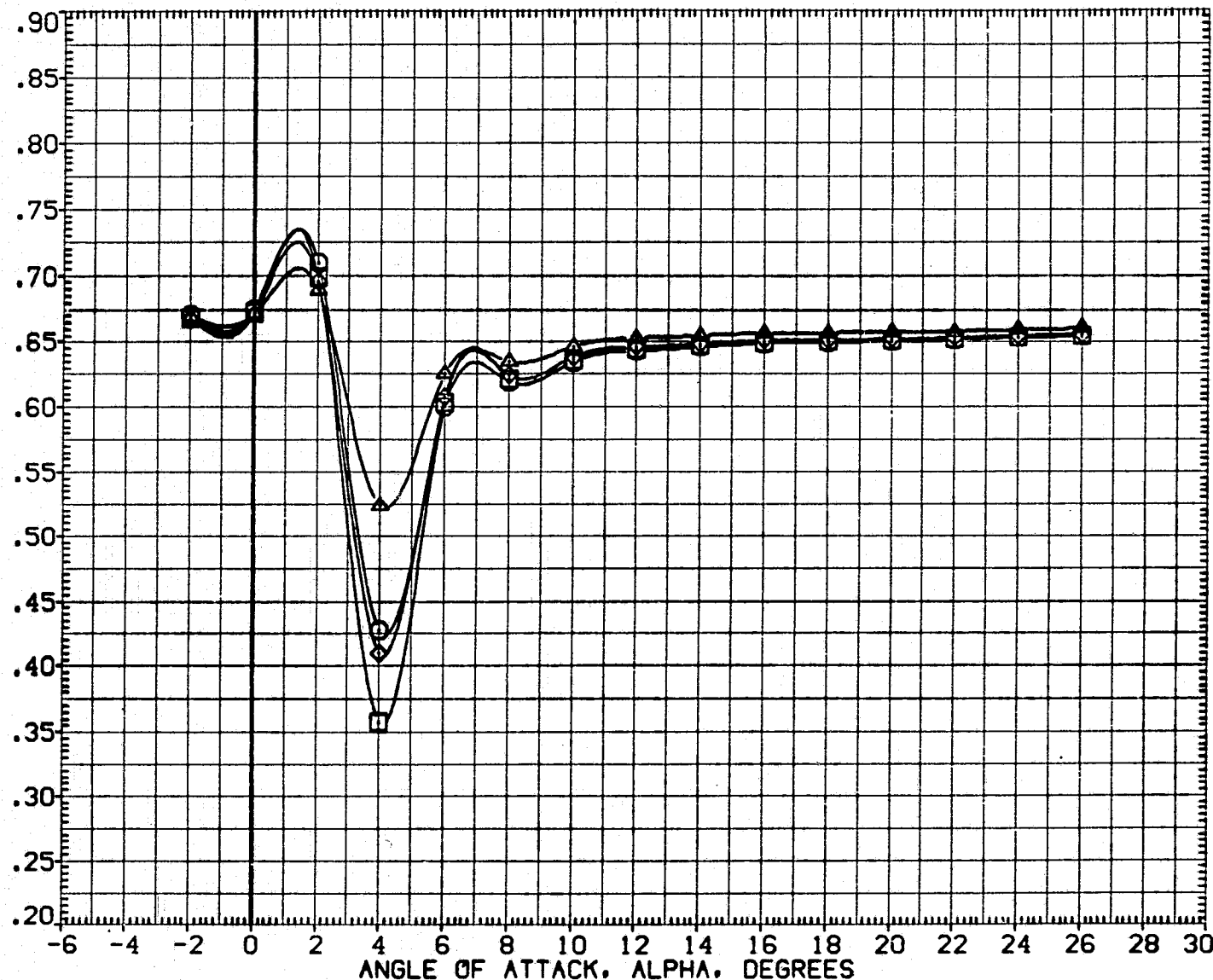


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00

PAGE 306

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO18)	△ OA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	10.000	10.000	SREF	2690.0000	SQ.FT.
(BTVO17)	◇ OA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
(BTVO16)	□ OA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
(BTVO06)	○ OA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

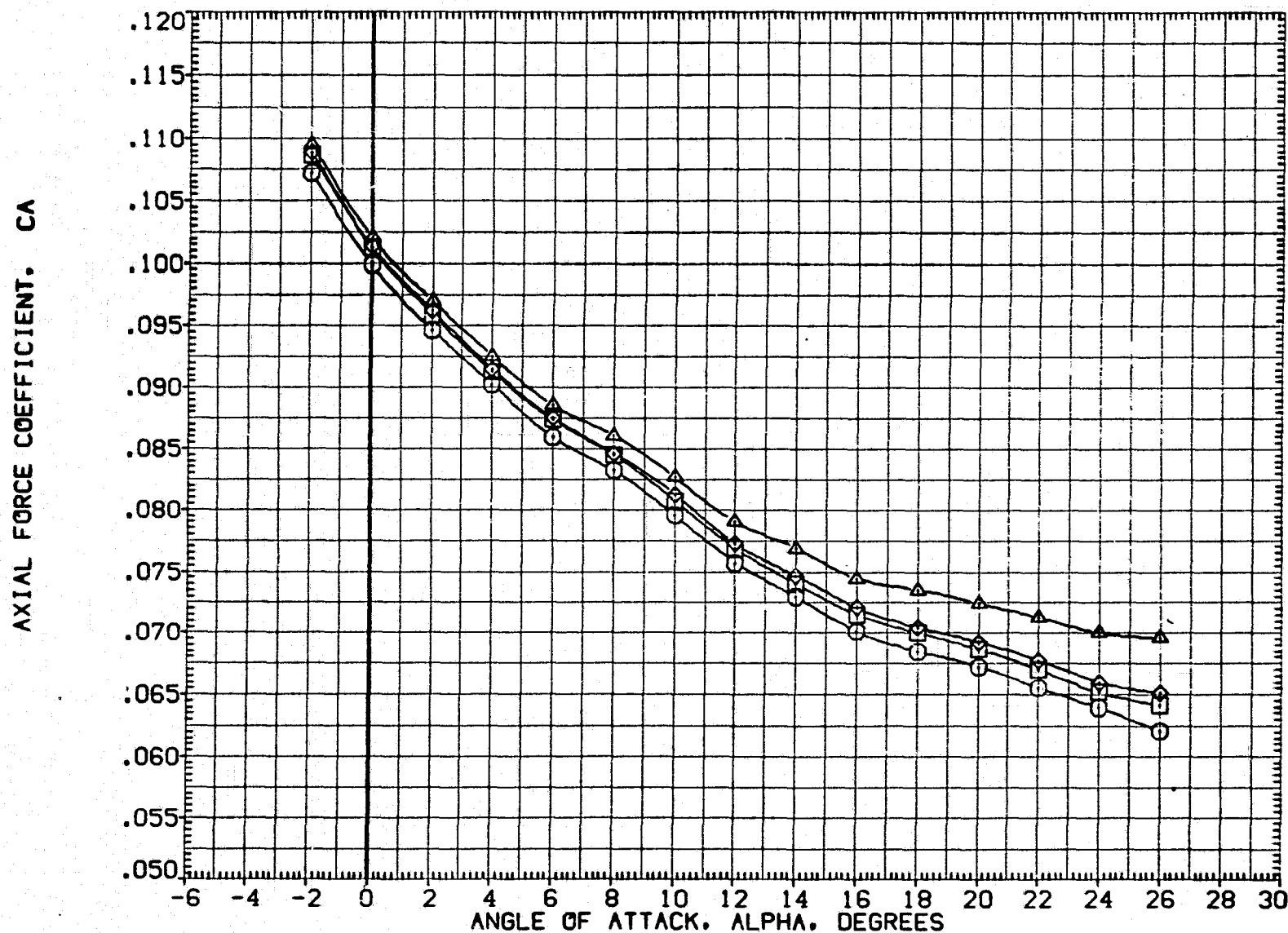


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO18)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	10.000	10.000	SREF	2690.0000	SQ.FT.
(BTVO17)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
(BTVO16)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
(BTVO06)	QA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

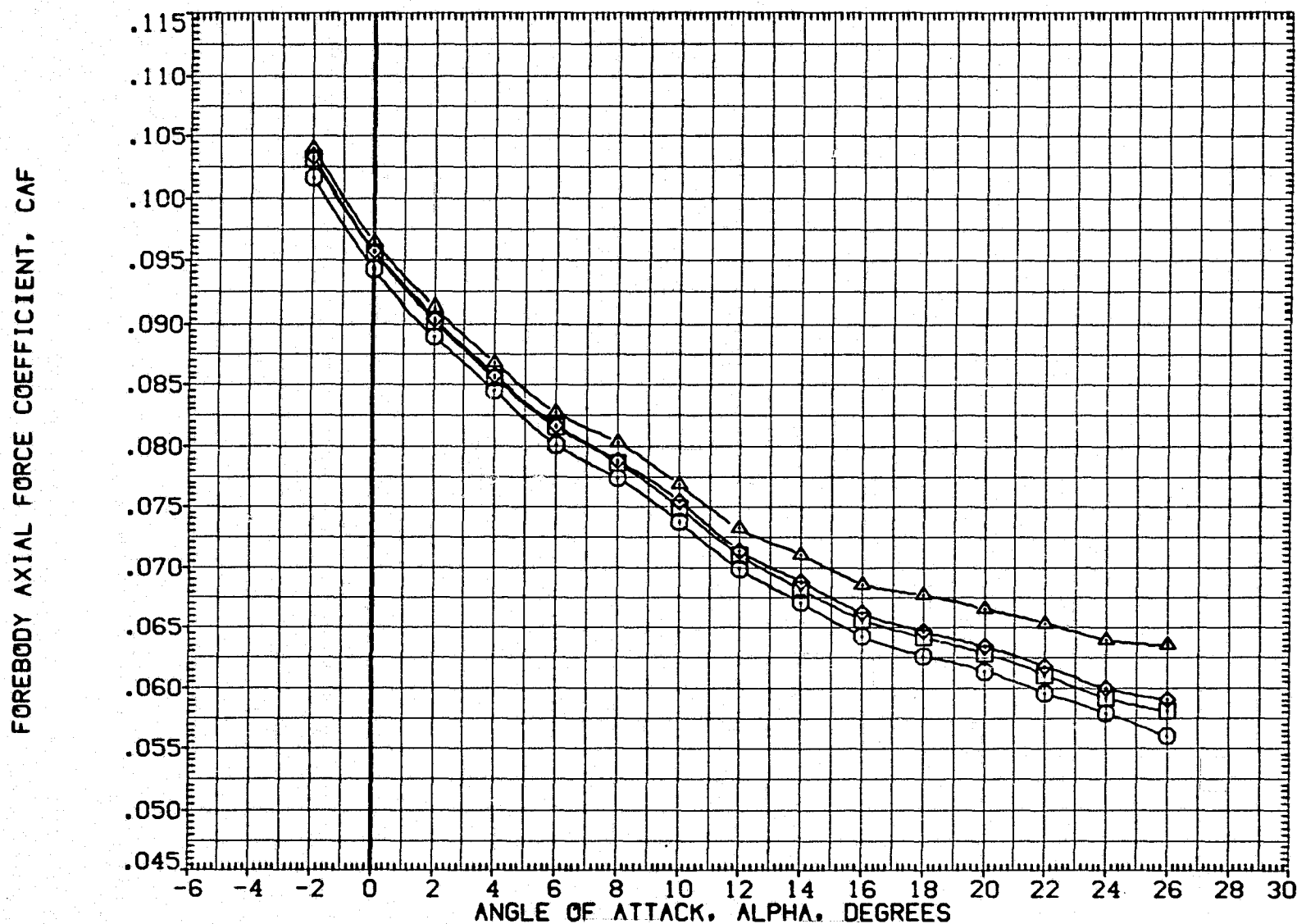


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(BTVO18)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	10.000	10.000	SREF	2690.0000	SQ.FT.
(BTVO17)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
(BTVO16)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-2.000	-2.000	2.000	2.000	BREF	936.6900	IN.
(BTVO06)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

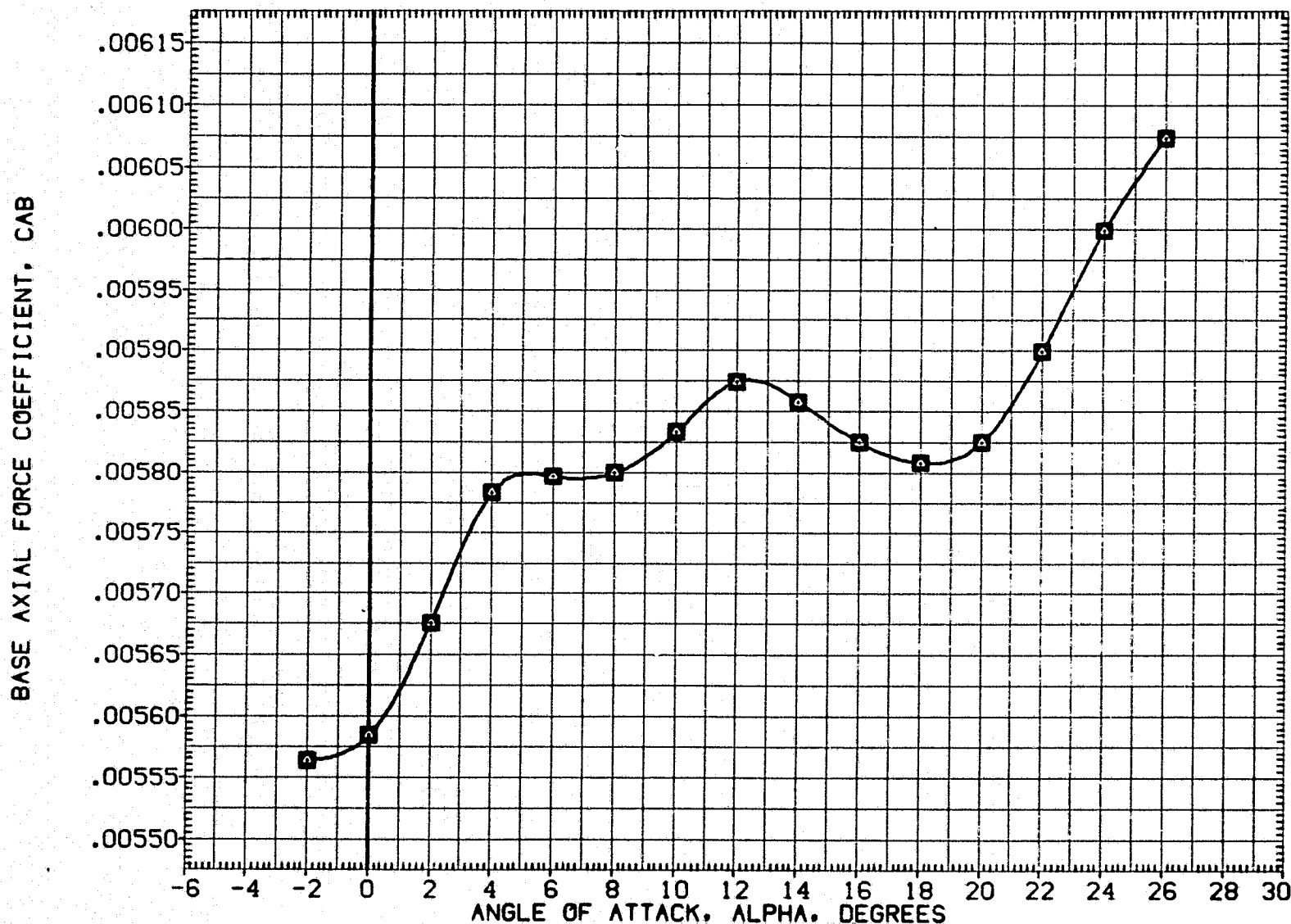


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)
 (A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO18)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO17)	◇	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO16)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(BTVO06)	○	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
-10.000	-10.000	10.000	10.000	SREF	2690.0000	SG.FT.
-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
.000	.000	.000	.000	XMRP	1076.6800	IN.X0
				YMRP	.0000	IN.Y0
				ZMRP	375.0000	IN.Z0
				SCALE	.0150	

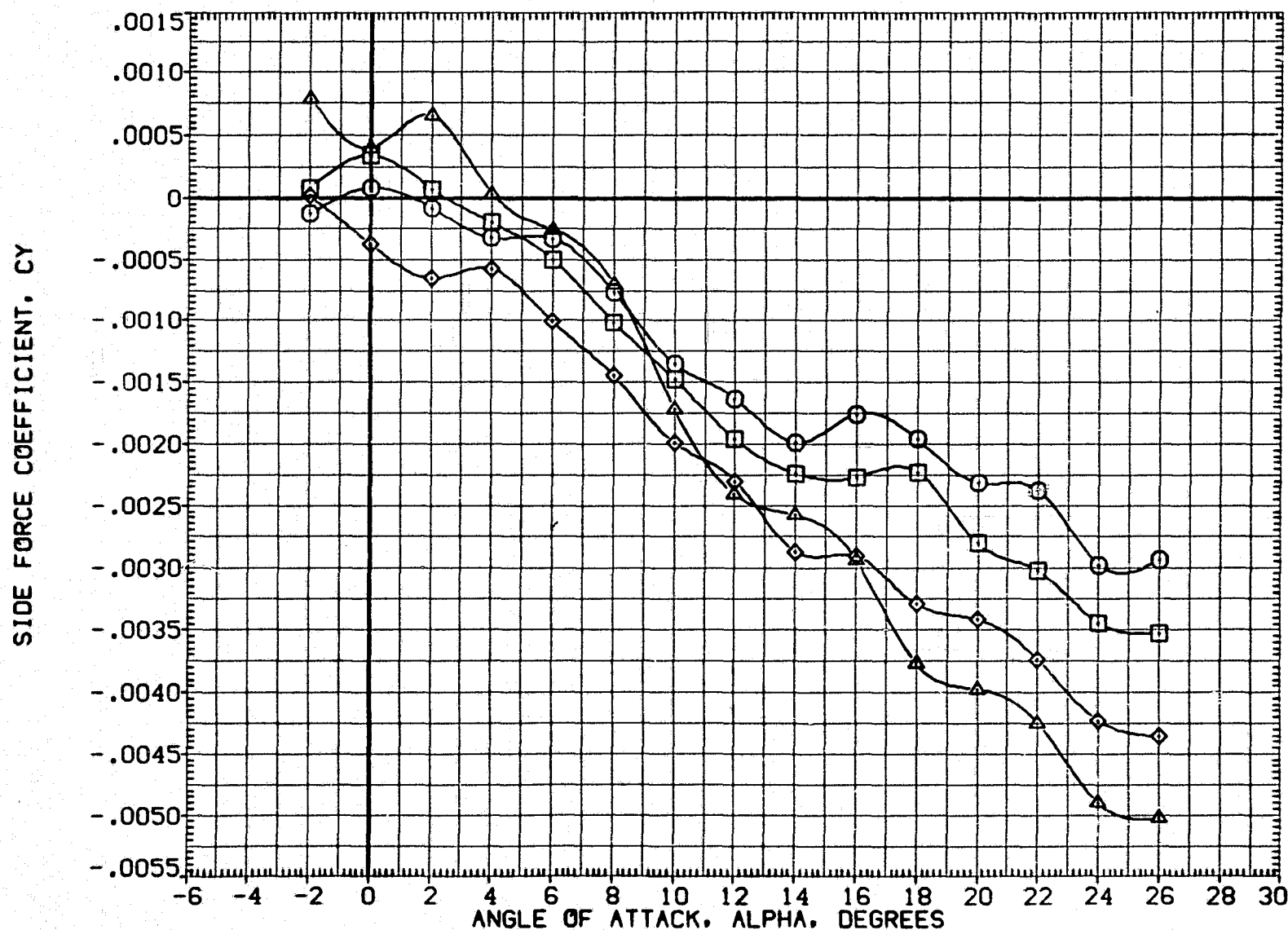


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BTVO18)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO17)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO16)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(BTVO06)	○	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
-10.000	-10.000	10.000	10.000	SREF	2690.0000	50.FT.
-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
.000	.000	.000	.000	XMRP	1076.6800	IN.X0
				YMRP	.0000	IN.Y0
				ZMRP	375.0000	IN.Z0
				SCALE	.0150	

LIFT/DRAG RATIO, L/D

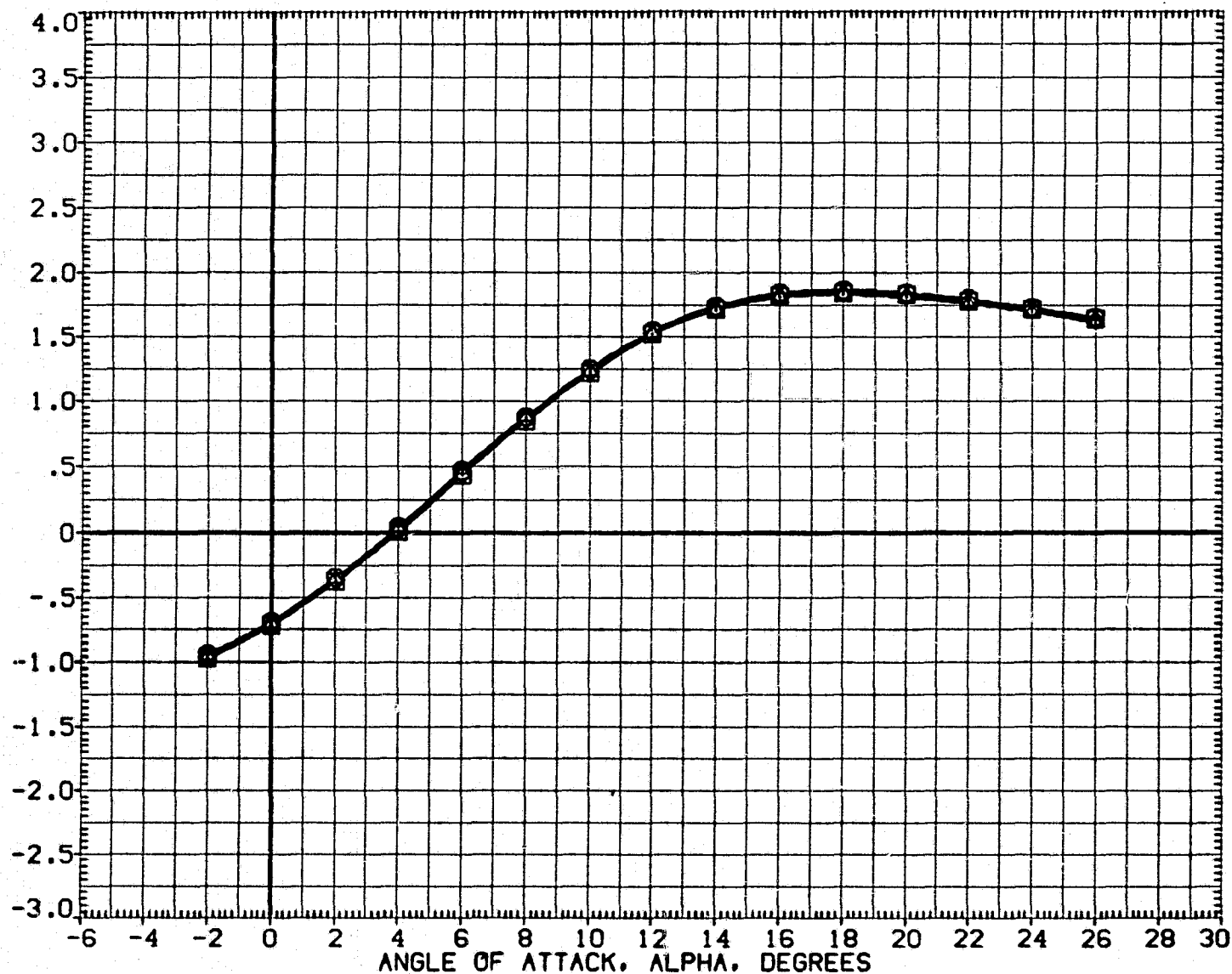


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RTV018)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV017)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV016)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV006)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
-10.000	-10.000	10.000	10.000
-5.000	-5.000	5.000	5.000
-2.000	-2.000	2.000	2.000
.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

LIFT COEFFICIENT, CL

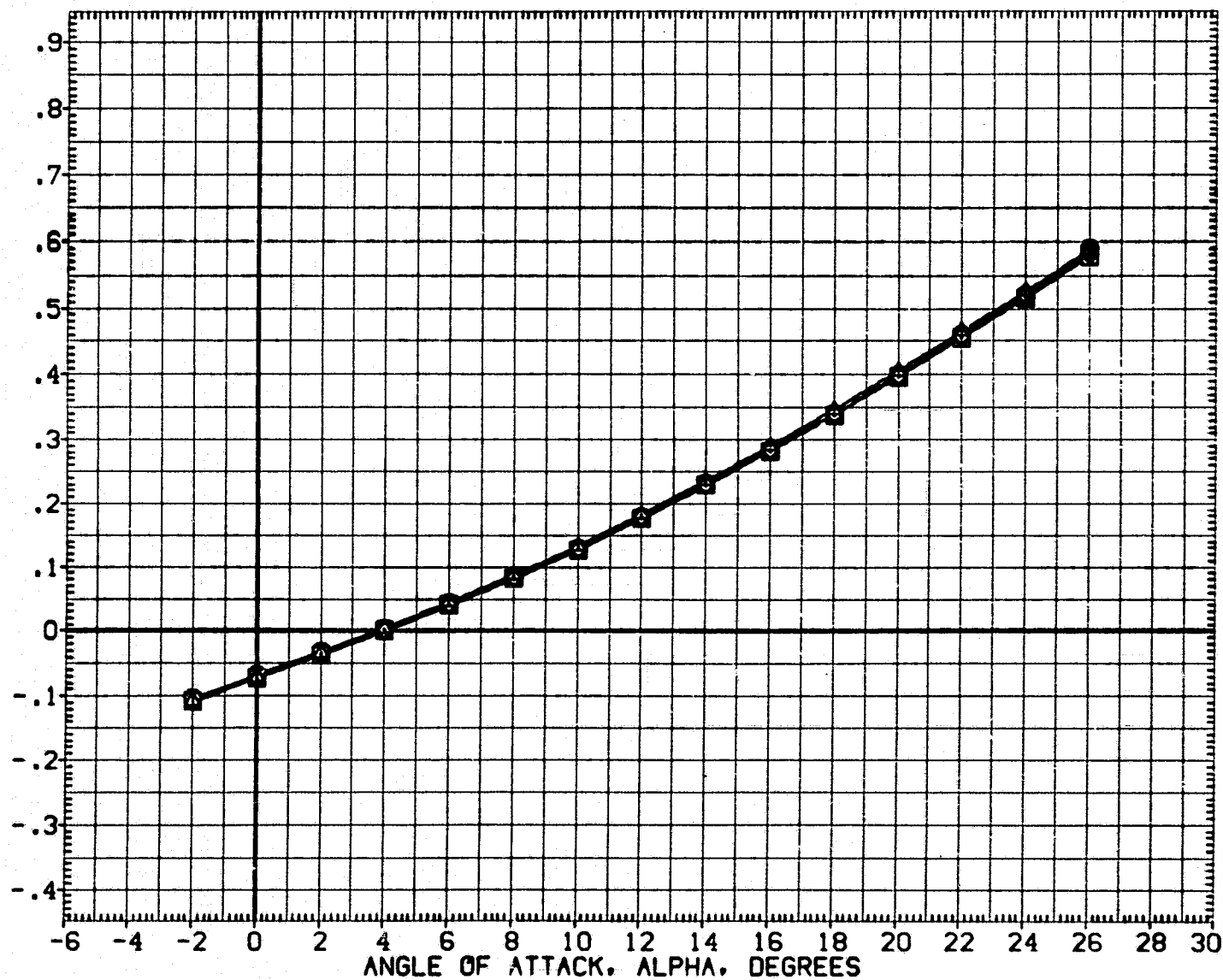


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RTV018)	△	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV017)	◇	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV016)	□	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116
(RTV006)	○	0A115	B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
-10.000	-10.000	10.000	10.000	SREF	2690.0000 SQ.FT.
-5.000	-5.000	5.000	5.000	LREF	474.8100 IN.
-2.000	-2.000	2.000	2.000	BREF	936.6800 IN.
.000	.000	.000	.000	XMRP	1076.6800 IN.X0
				YMRP	.0000 IN.Y0
				ZMRP	375.0000 IN.Z0
				SCALE	.0150

DRAG COEFFICIENT.CD

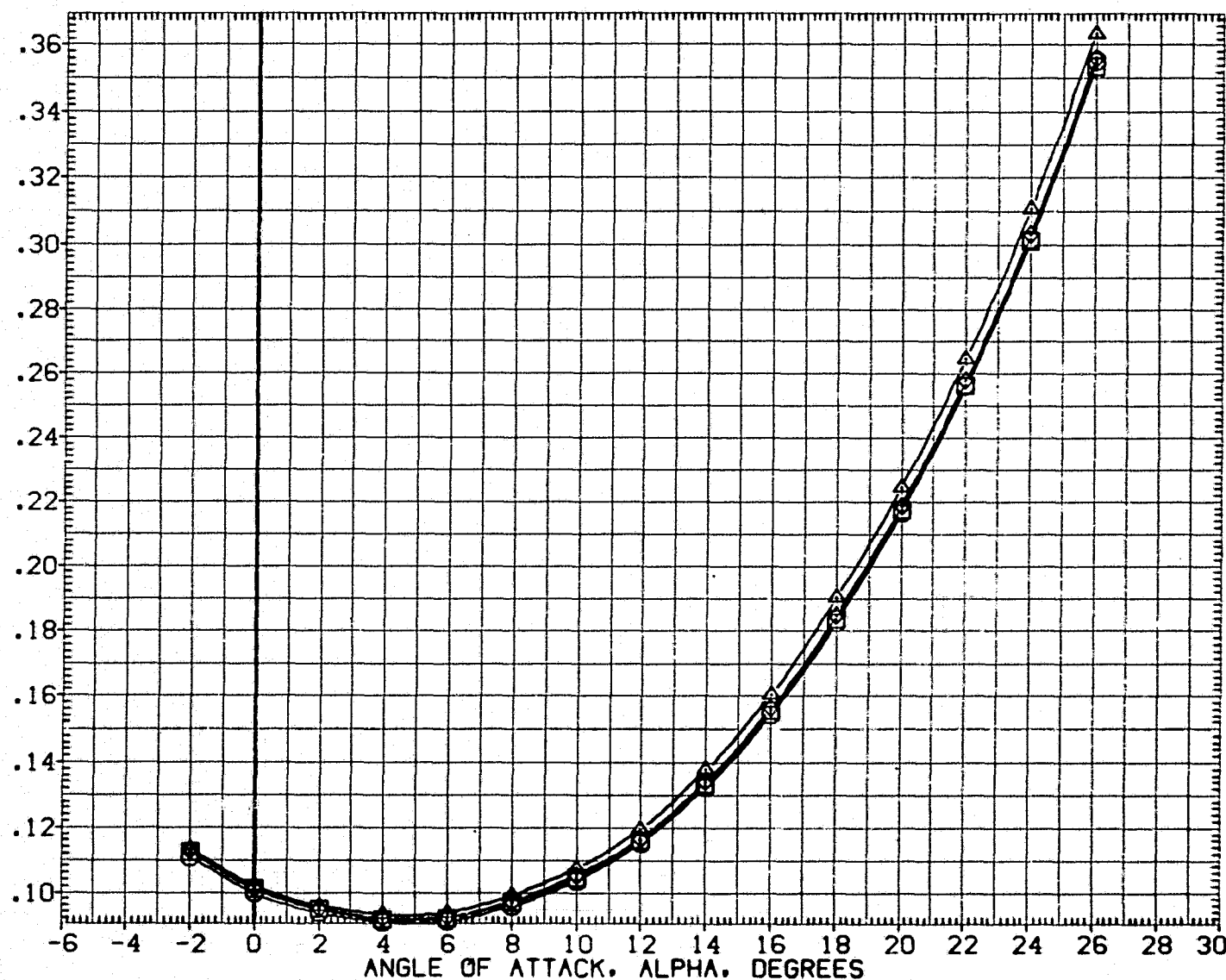


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(RTV018)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	10.000	10.000	SREF	2690.0000	SQ.FT.
(RTV017)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
(RTV016)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
(RTV006)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

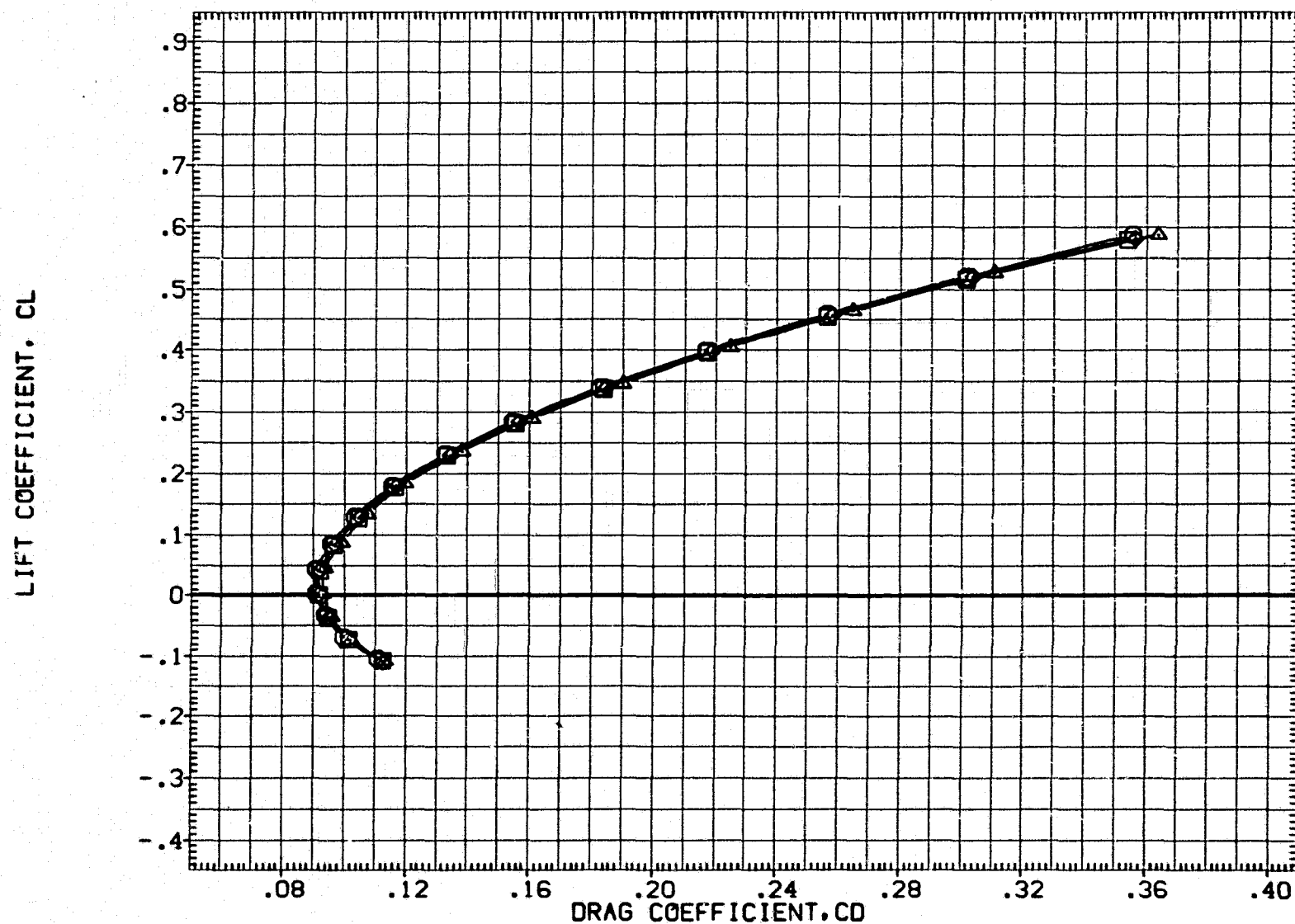


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A) MACH = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ATV018)	△	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(ATV017)	◇	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(ATV016)	□	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116
(ATV006)	○	0A115	B26	C9	E43	F8	M16	N28	R5	V8	V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
-10.000	-10.000	10.000	10.000	SREF	2690.0000	50. FT.
-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
.000	.000	.000	.000	XMRP	1076.6800	IN. X0
				YMRP	.0000	IN. Y0
				ZMRP	375.0000	IN. Z0
				SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

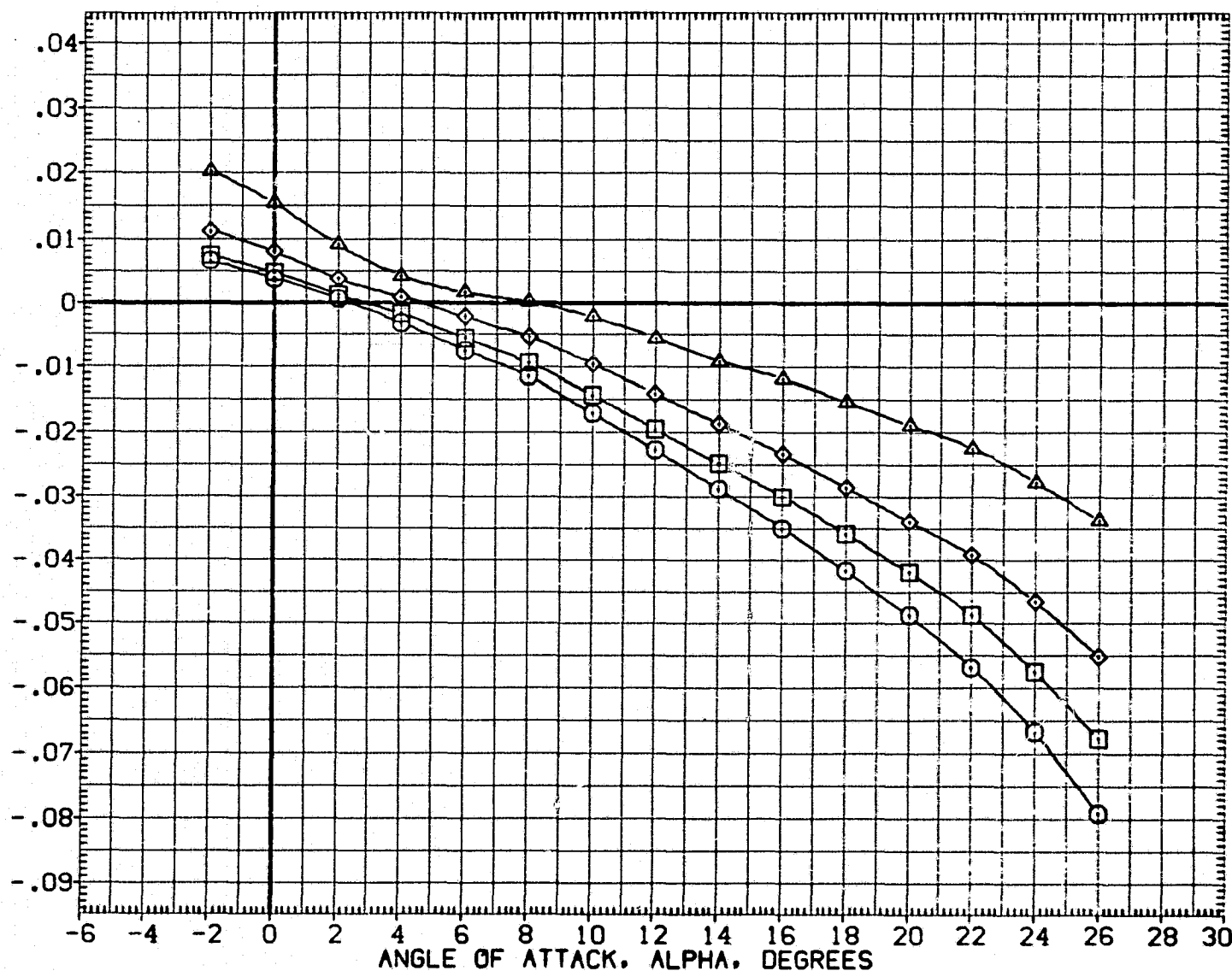


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A) MACH = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV018)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	10.000	10.000	SREF	2690.0000	50.FT.
(ATV017)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
(ATV016)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
(ATV006)	GA115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

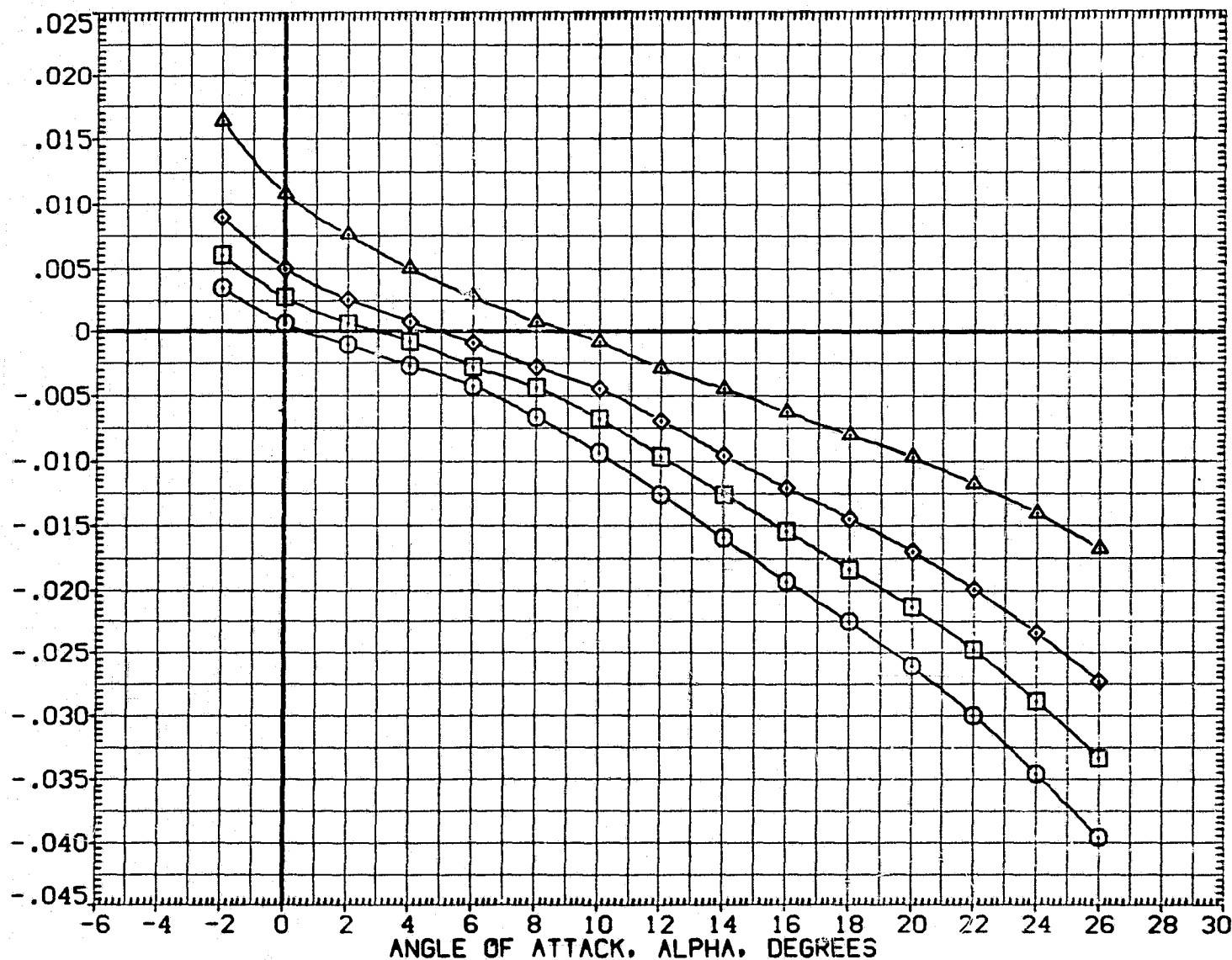


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)

(A)MACH = 5.00

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(ATV018)	△ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	10.000	10.000	SREF	2690.0000	SQ.FT.
(ATV017)	◇ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-5.000	-5.000	5.000	5.000	LREF	474.8100	IN.
(ATV016)	□ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	-2.000	-2.000	2.000	2.000	BREF	936.6800	IN.
(ATV006)	○ 0A115 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.5800	IN.X0
						YMRP	.0000	IN.Y0
						ZMRP	375.0000	IN.Z0
						SCALE	.0150	

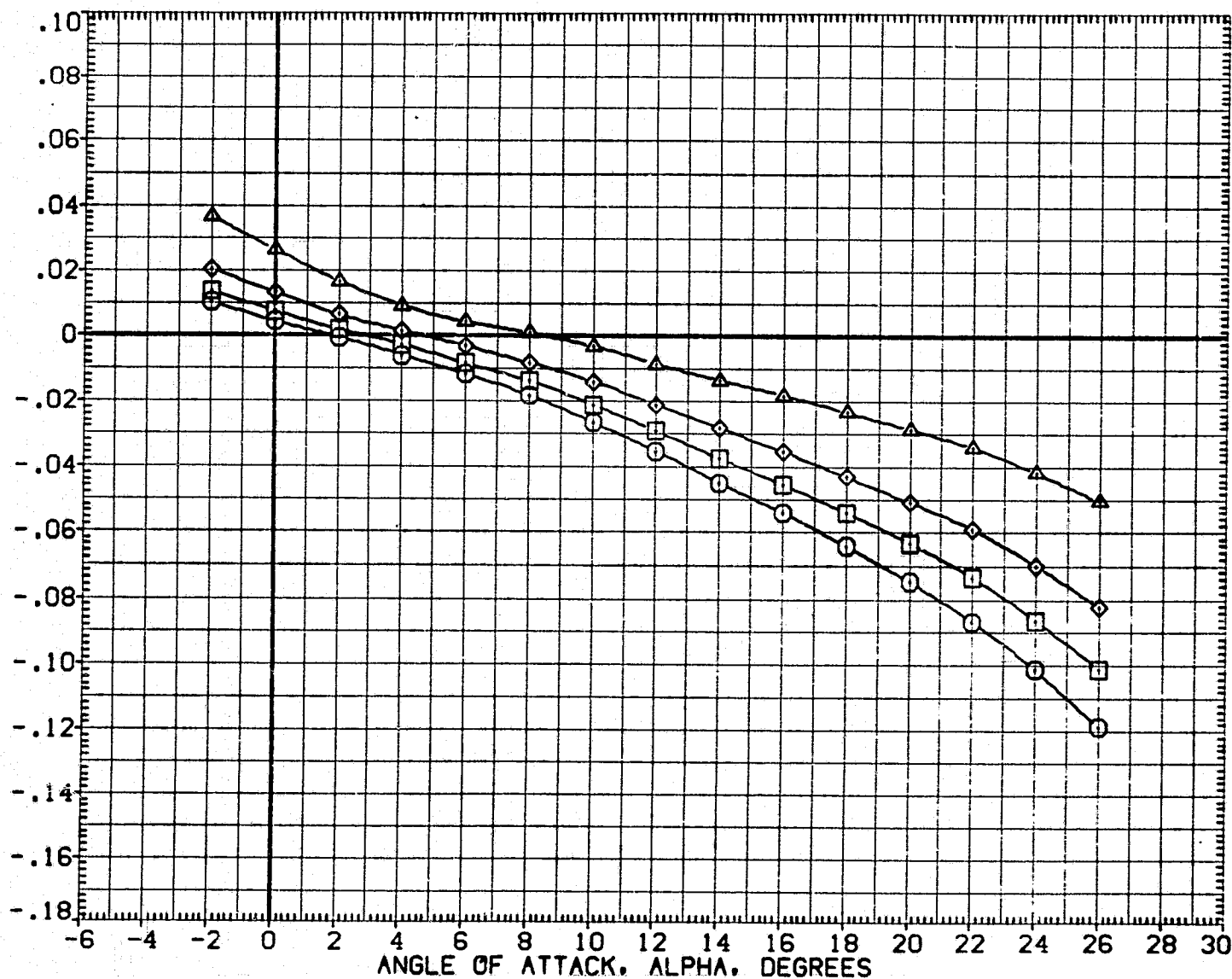


FIG. 16 FULL SPAN AILERON EFFECTIVENESS (BODY FLAP= 0, SPEED BRAKE= 85)
(A)MACH = 5.00

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL

○
□
◇
△

ALPHA

-3.000

MACH

.000

BETA

5.000

RUDDER

10.000

PARAMETRIC VALUES

5.000

SPDBRK

85.000

DATASET

CTV018

CTV016

-10.000

-2.000

DATA SOURCE

DLTEL0

CTV017

CTV006

-5.000

.000

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

2690.0000

474.8100

936.6800

1076.6900

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.Y0

IN.Y0

IN.Z0

INCREMENTAL LIFT FORCE COEFFICIENT, DLICL

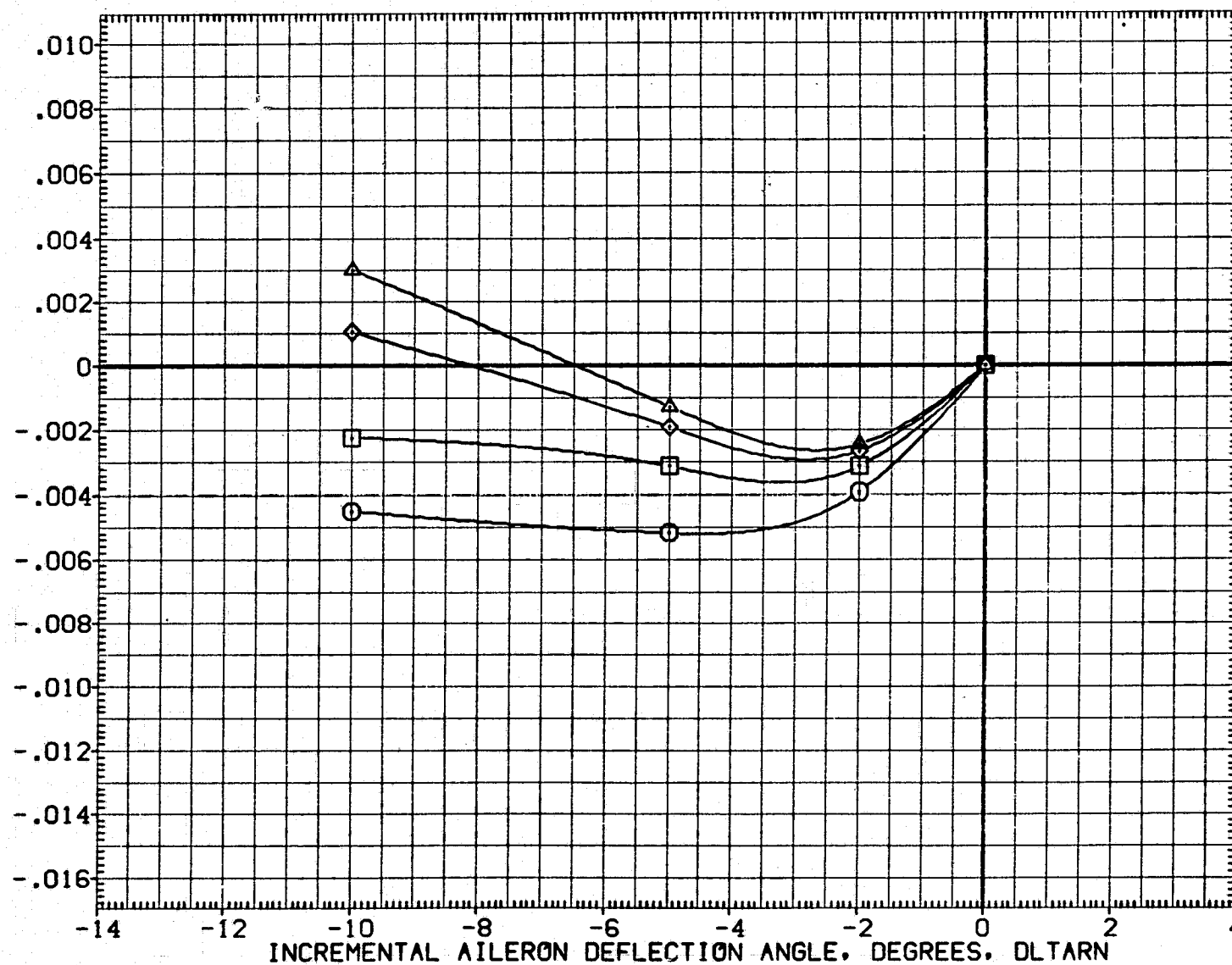


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	15.000	MACH	5.000	SPDBRK	85.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	50.FT.
□	20.000	BETA	.000	BDFLAP	.000	CTV018	-10.000	CTV017	-5.000	LREF	474.8100	IN.
◇	25.000	RUDDER	.000			CTV016	-2.000	CTV006	.000	BREF	936.6800	IN.
△	27.000									XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL LIFT FORCE COEFFICIENT, DLTCL

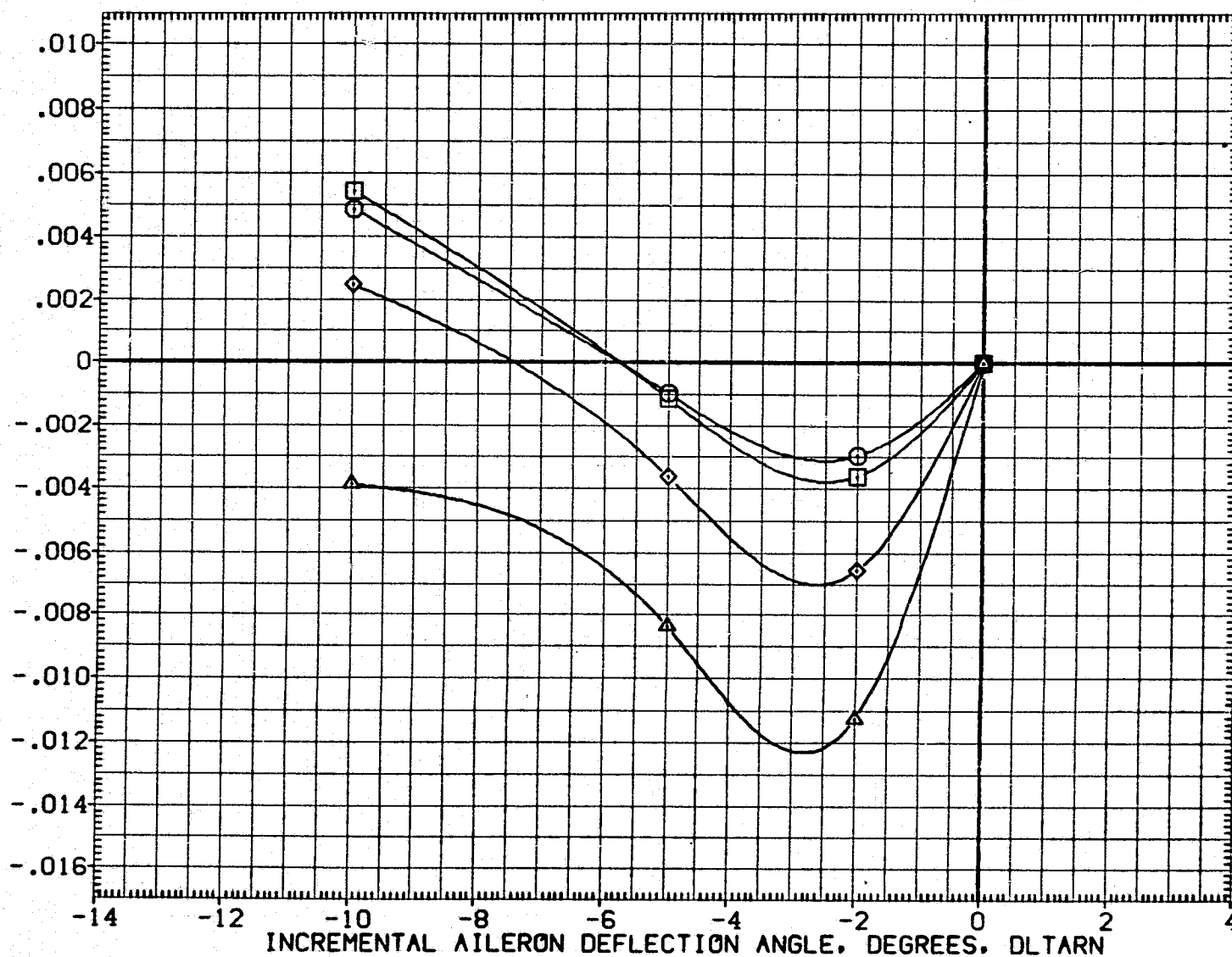


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH

BETA
RUDDER

PARAMETRIC VALUES

5.000 SPOBRK
.000 BDFLAP
.000

85.000

DATASET

CTV018
CTV016

DATA SOURCE

DLTEL0

-10.000
-2.000

DATASET

CTV017
CTV006

DLTEL0

-5.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

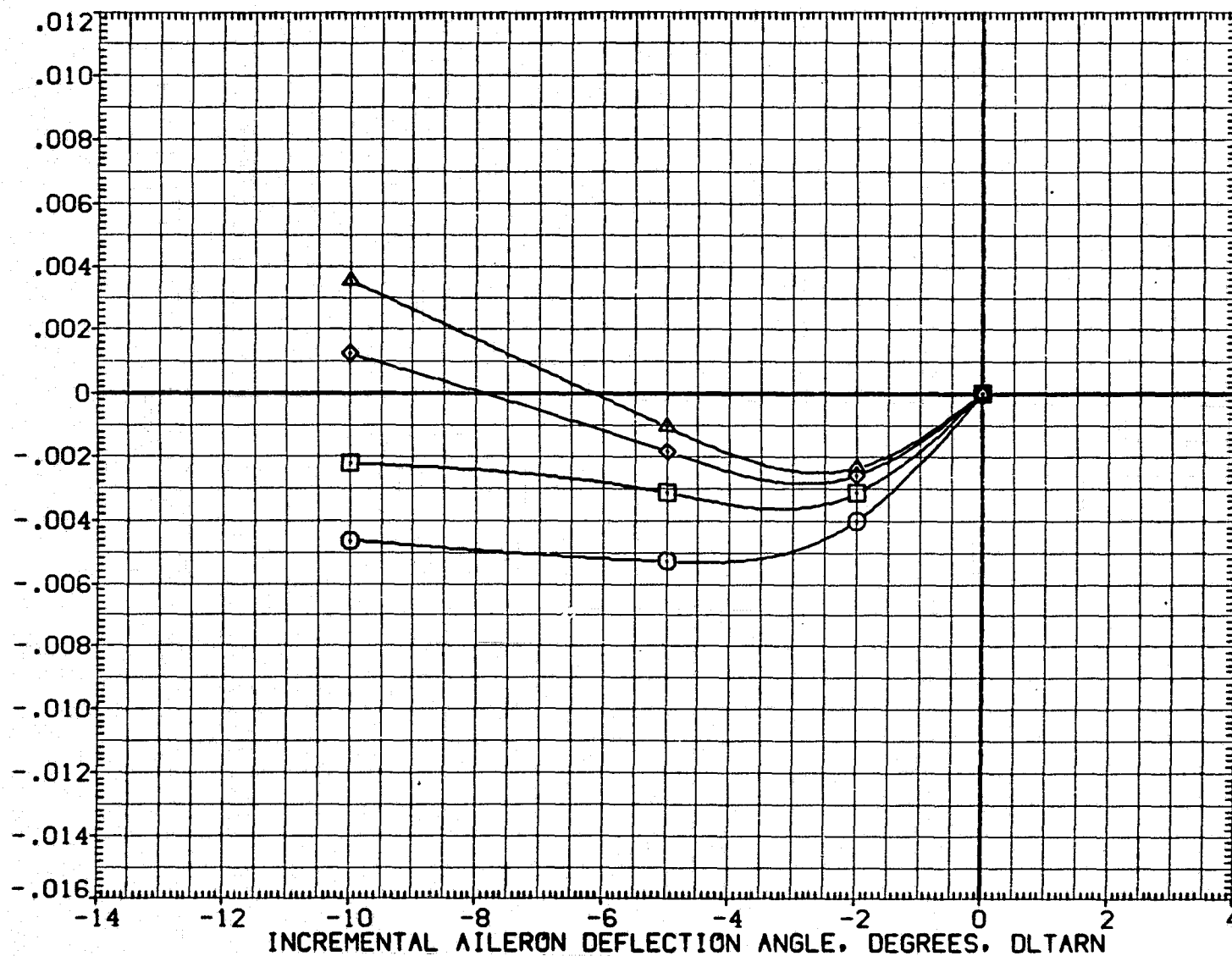


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL

○
□
◇
△

ALPHA

15.000
20.000
25.000
27.000

MACH

BETA

RUDDER

PARAMETRIC VALUES

5.000
.000
.000

SPDBRK

BDFLAP

85.000

DATASET

CTV018

CTV016

DATA SOURCE

DLTELO

-10.000

-2.000

DATASET

CTV017

CTV006

DLTELO

-5.000

.000

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ. FT.

IN.

IN.

IN. X0

IN. Y0

IN. Z0

INCREMENTAL NORMAL FORCE COEFFICIENT, DLTCN

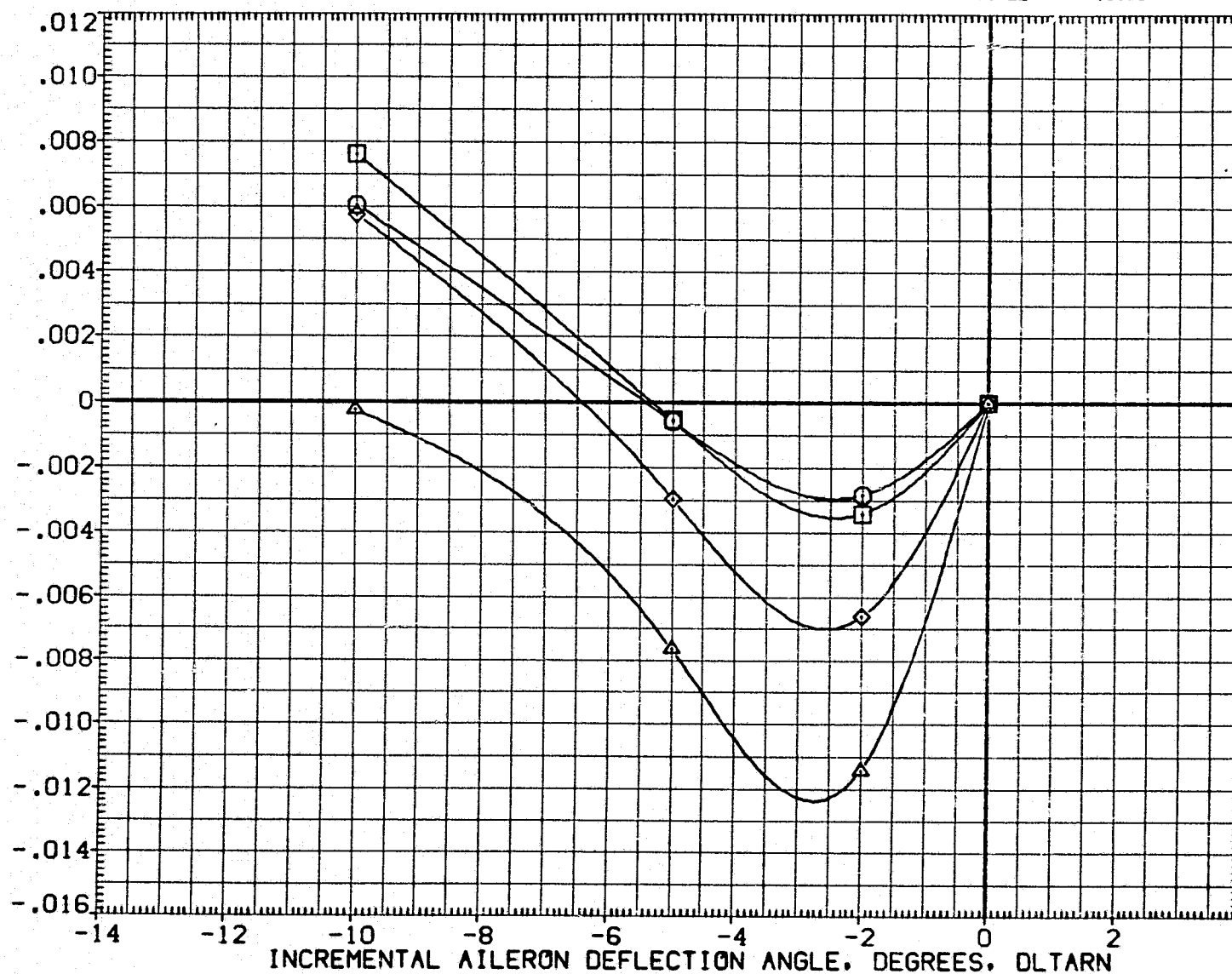


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH
BETA
RUDDER

PARAMETRIC VALUES

5.000 SPDBRK
.000 BDFLAP
.000

85.000 DATASET
.000 CTV018
CTV016

DATA SOURCE

DLTEL0
-10.000
-2.000

DATASET
CTV017
CTV006

DLTEL0
-5.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL DRAG FORCE COEFFICIENT, DLTCO



FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL

○
□
◇
△

ALPHA

15.000

MACH

PARAMETRIC VALUES

5.000

SPOBRK

85.000

DATASET

DATA SOURCE

DLTELO

-10.000

DATASET

DLTELO

-5.000

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

REFERENCE INFORMATION

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL DRAG FORCE COEFFICIENT, DLTCO

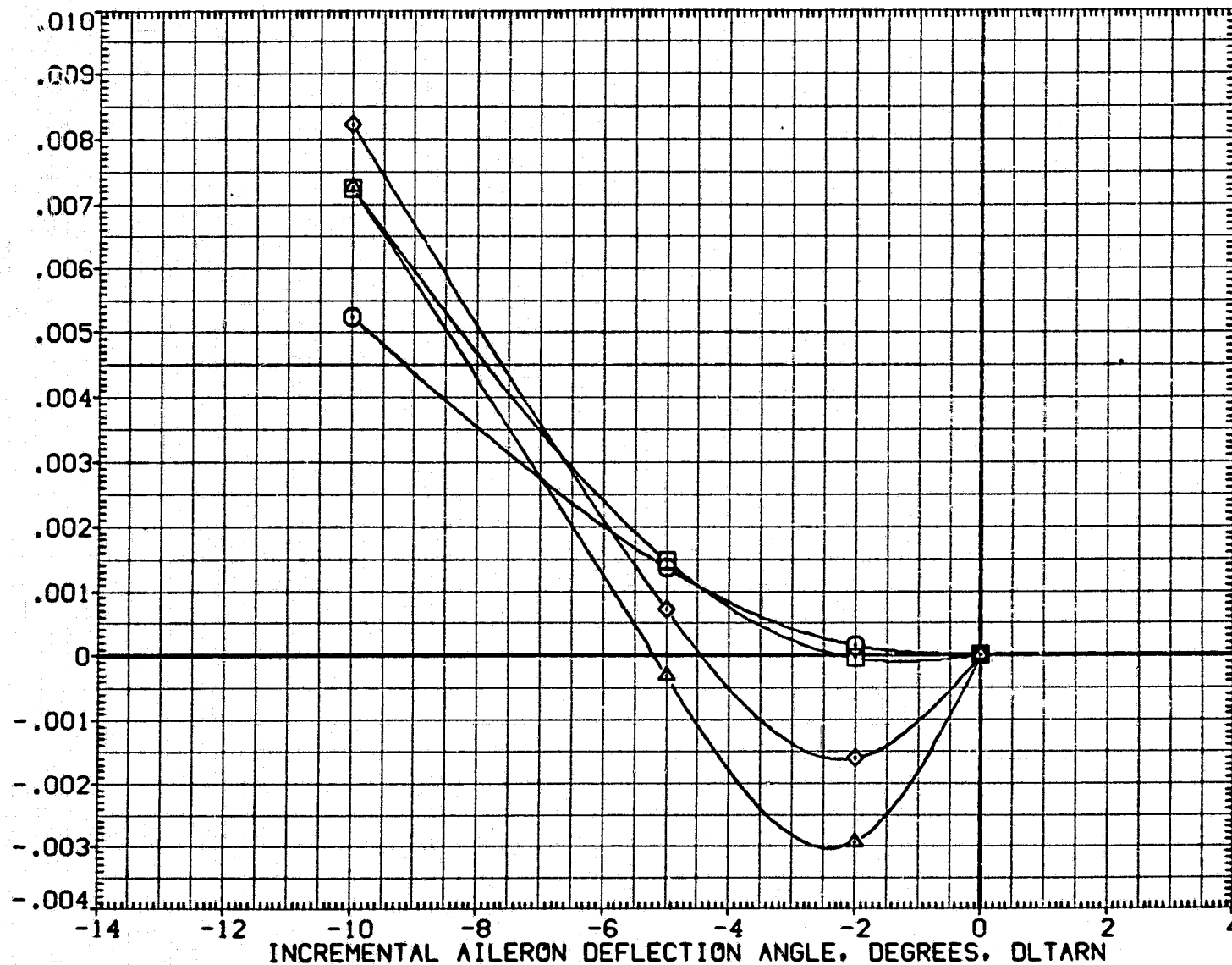


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV018)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION			
○	-3.000	MACH	5.000	SPDBRK	85.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	50.FT.	
□	.000	BETA	.000	BDFLAP	.000	DTV018	-10.000	DTV017	-5.000	LREF	474.8100	IN.	
◇	5.000	RUDDER	.000			DTV016	-2.000	DTV006	.000	BREF	936.6800	IN.	
△	10.000									XMRP	1076.6800	IN.X0	
										YMRP	.0000	IN.Y0	
										ZMRP	375.0000	IN.Z0	
										SCALE	.0150		

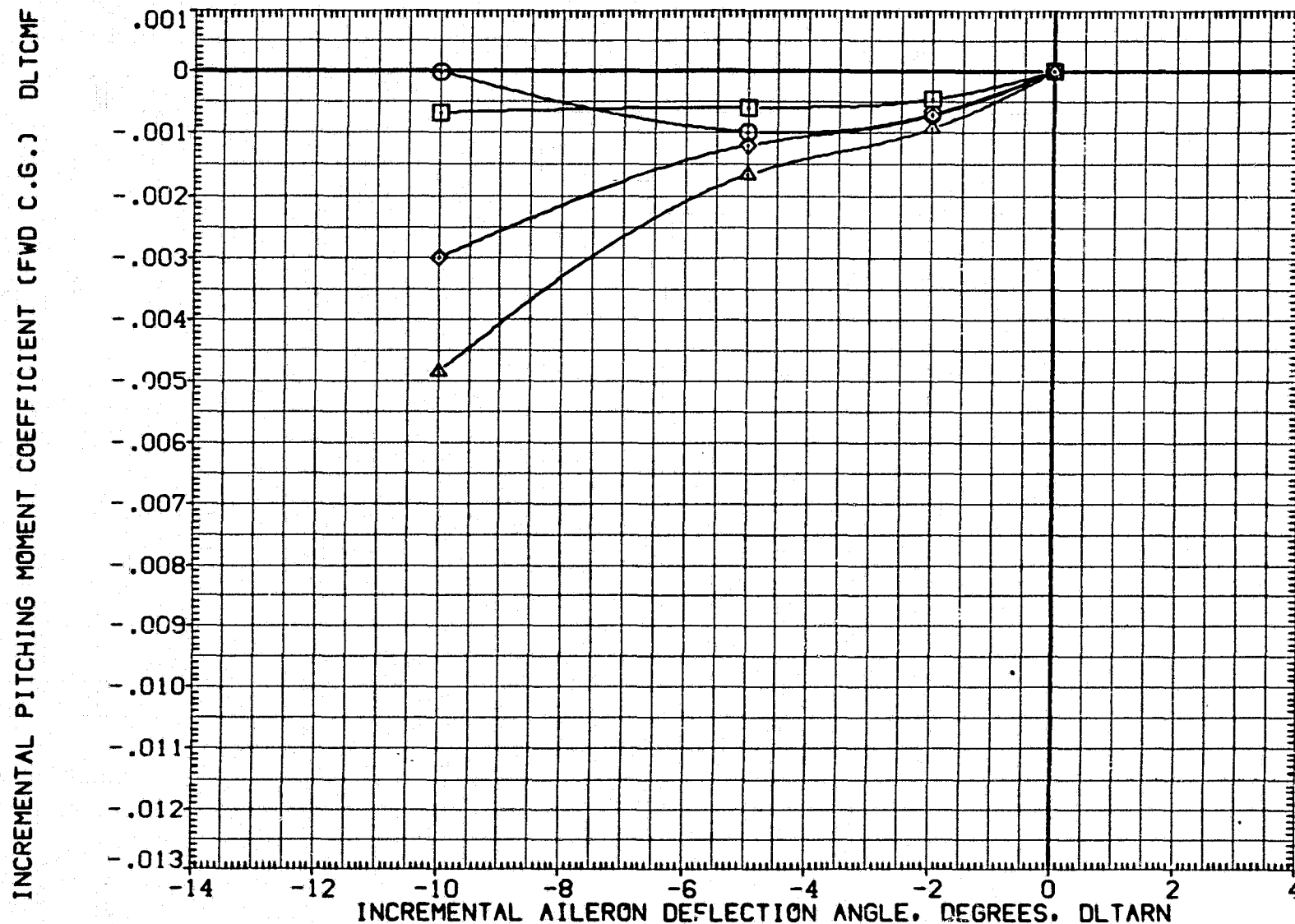


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV018)

SYMBOL

○
□
◇
△

ALPHA

15.000
20.000
25.000
27.000

MACH

BETA

RUDDER

PARAMETRIC VALUES

5.000 SPDBRK
.000 BDFLAP
.000

85.000

DATASET

DTV018

DTV016

DATA SOURCE

DLTELO

-10.000

-2.000

DATASET

DTV017

DTV006

DLTELO

-5.000

.000

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.) DLTCMF

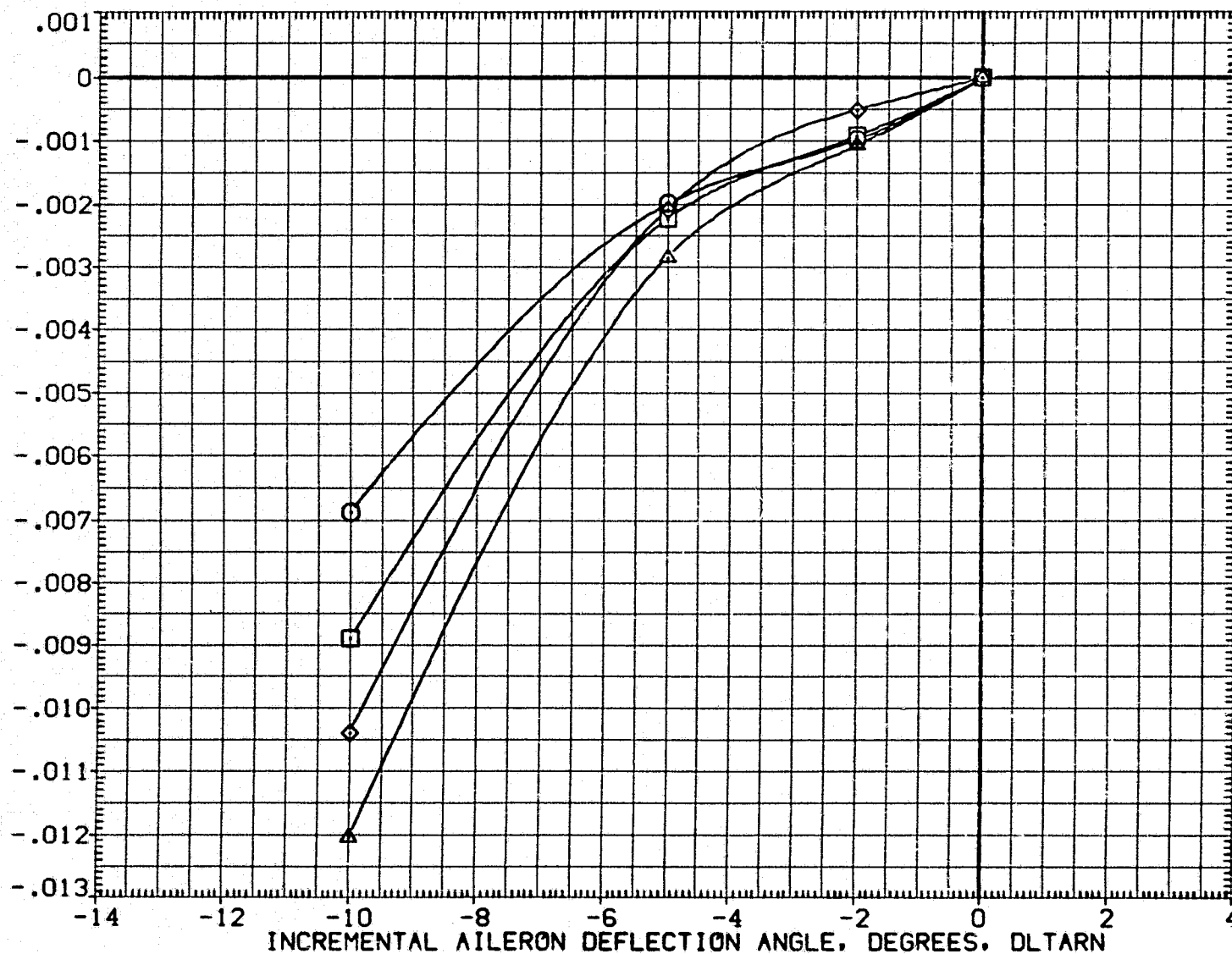


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V9 W116

(DTV018)

SYMBOL

○
□
◇
△

ALPHA
-3.000
.000
5.000
10.000

MACH
BETA
RUDDER

PARAMETRIC VALUES

5.000 SPOBRK
.000 BOFLAP
.000

85.000 DATASET
.000 DTV018
DTV016

DATA SOURCE

DLTEL0
-10.000
-2.000

DATASET
DTV017
DTV006

DLTEL0
-5.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.) DLTOMA

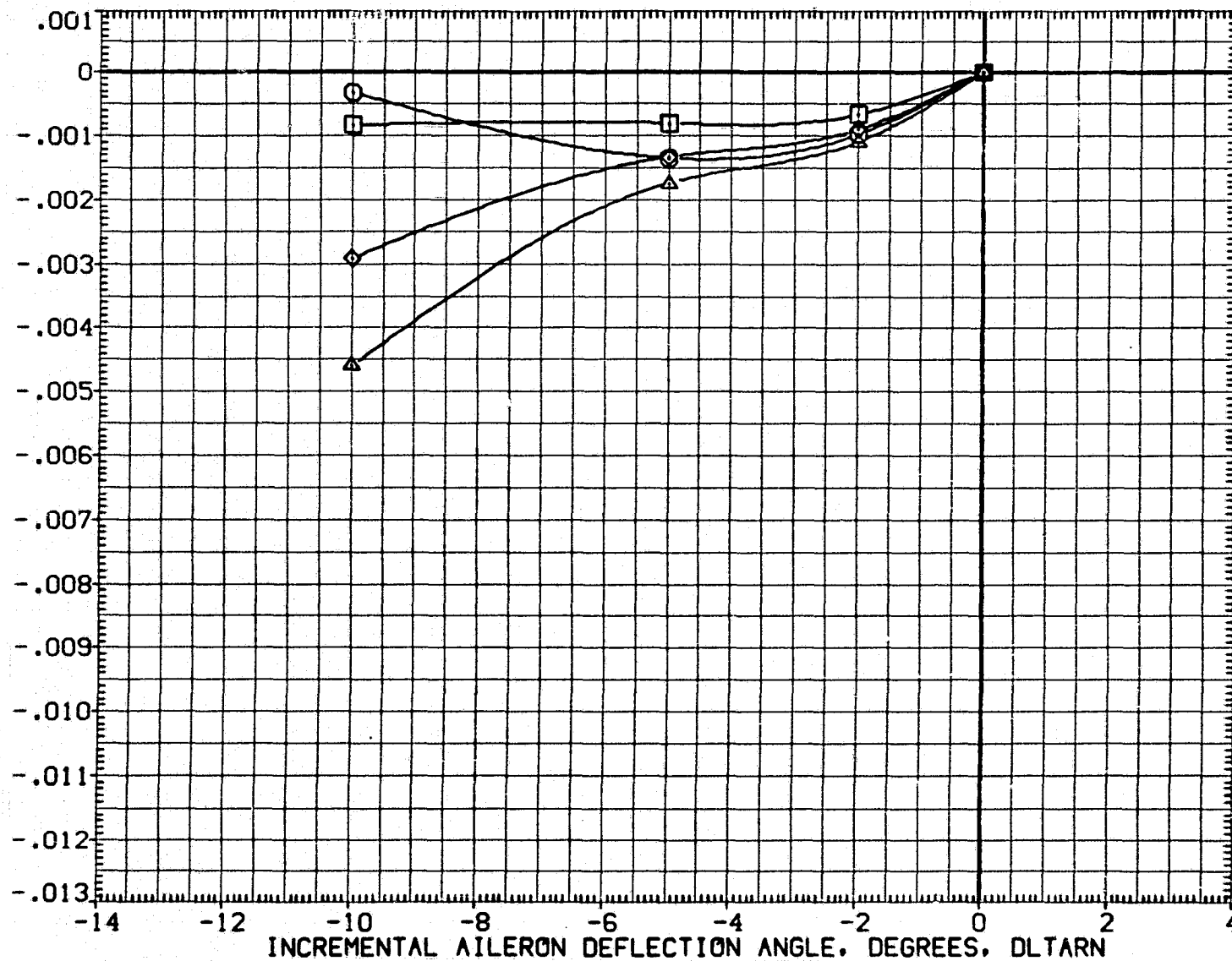


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	SPDRBK	85.000	DATASET	DLTELO	DATASET	DLTELO	SREF	2690.0000	SQ.FT.
○	15.000	BETA	.000	BDFLAP	.000	DTV018	-10.000	DTV017	-5.000	LREF	474.8100	IN.
□	20.000	RUDDER	.000			DTV016	-2.000	DTV006	.000	BREF	936.6800	IN.
◇	25.000									XMRP	1076.6800	IN.X0
△	27.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.) DLTCMA

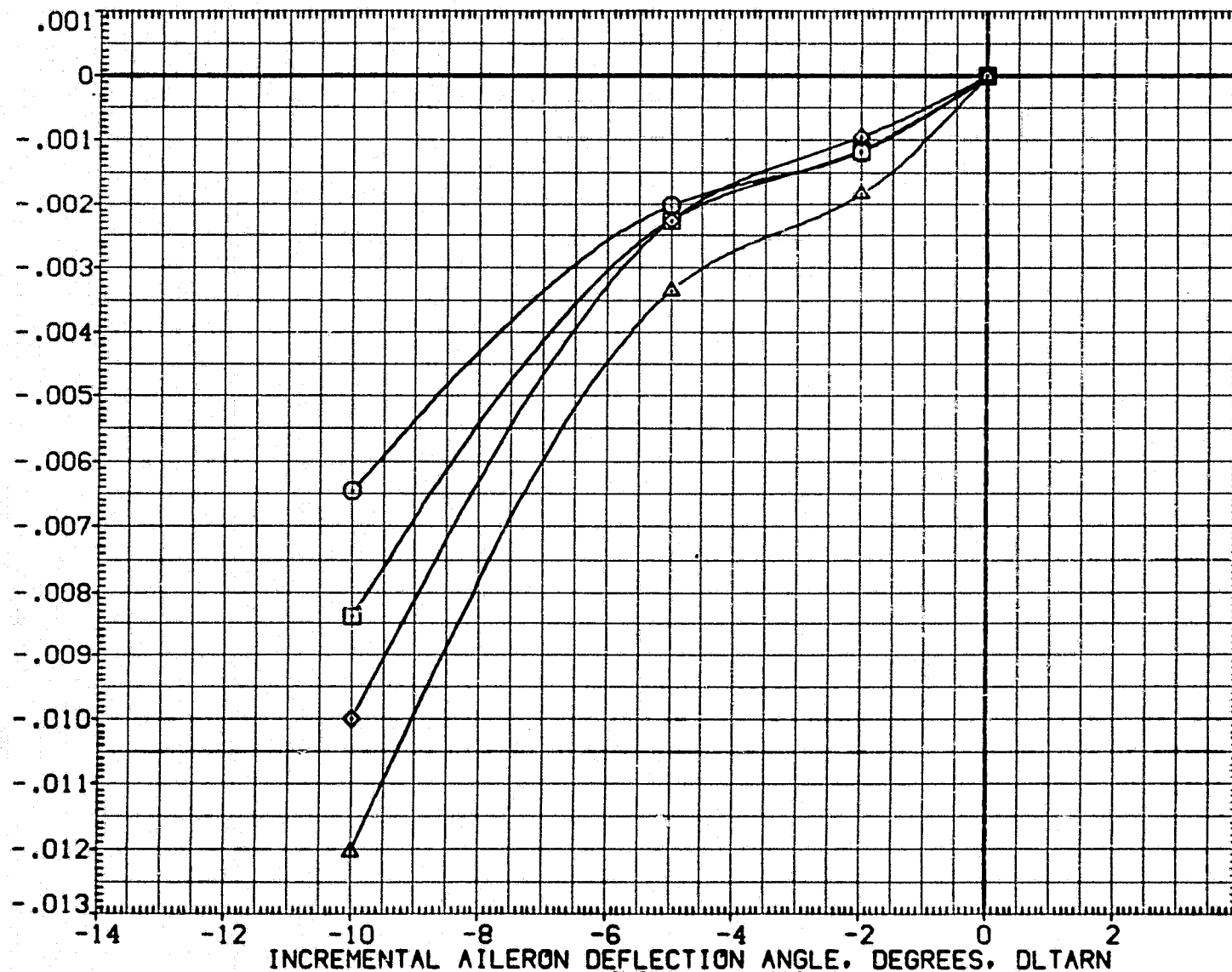


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	SPDBRK	85.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	SQ.FT.
○	-3.000									LREF	474.8100	IN.
□	.000	BETA		BDFLAP	.000	DTV018	-10.000	DTV017	-5.000	BREF	936.6800	IN.
◇	5.000	RUDDER				DTV016	-2.000	DTV006	.000	XMRP	1076.6800	IN.X0
△	10.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL AXIAL FORCE COEFFICIENT, DLICA

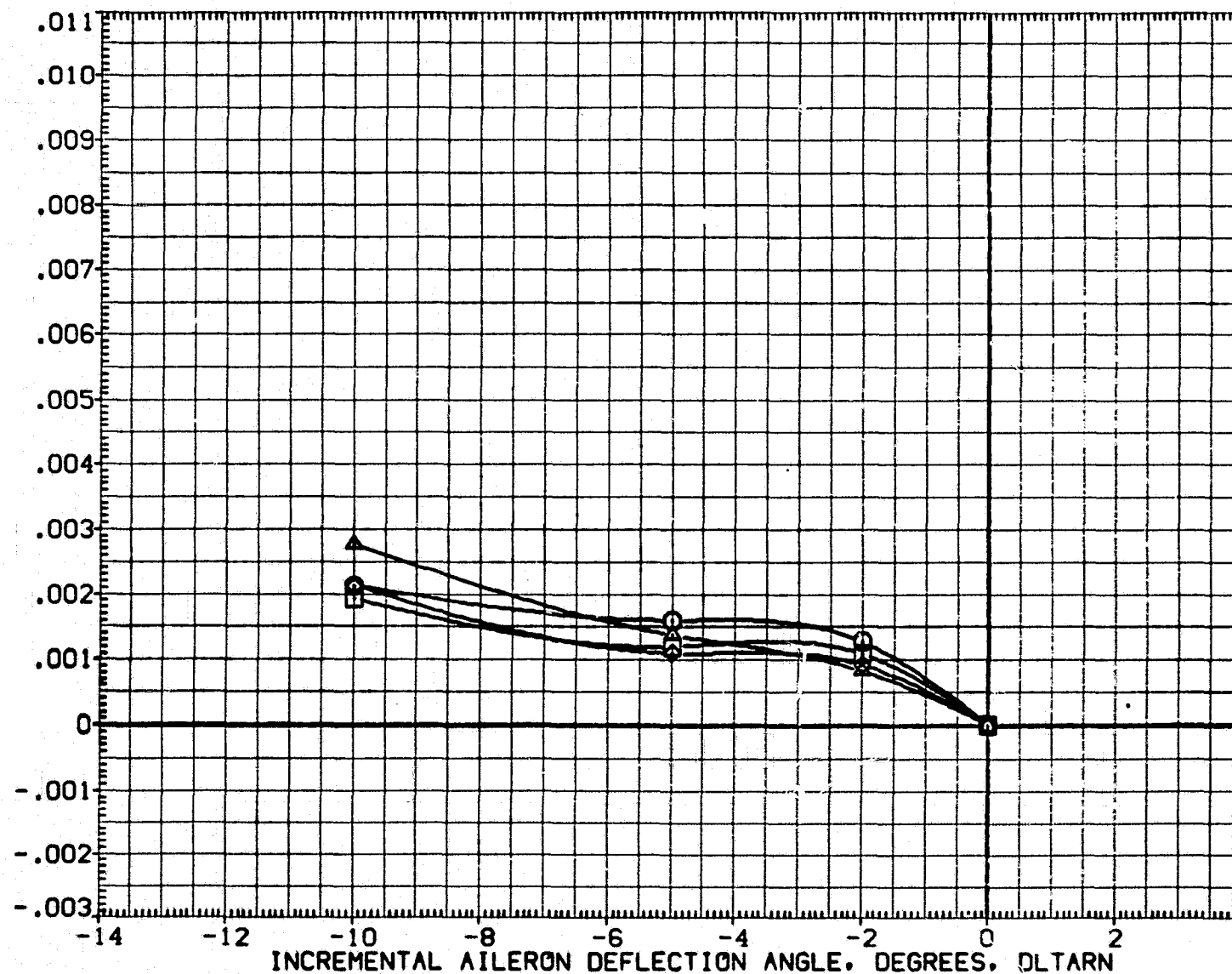


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV018)

SYMBOL

○
□
◇
△

ALPHA

15.000
20.000
25.000
27.000

MACH

BETA

RUDDER

PARAMETRIC VALUES

5.000

SPDBRK

.000

BDFLAP

.000

85.000

DATASET

DTV018

DTV016

DATA SOURCE

DLTELO

-10.000

-2.000

DATASET

DTV017

DTV006

DLTELO

-5.000

.000

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

50.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INCREMENTAL AXIAL FORCE COEFFICIENT, DLICA

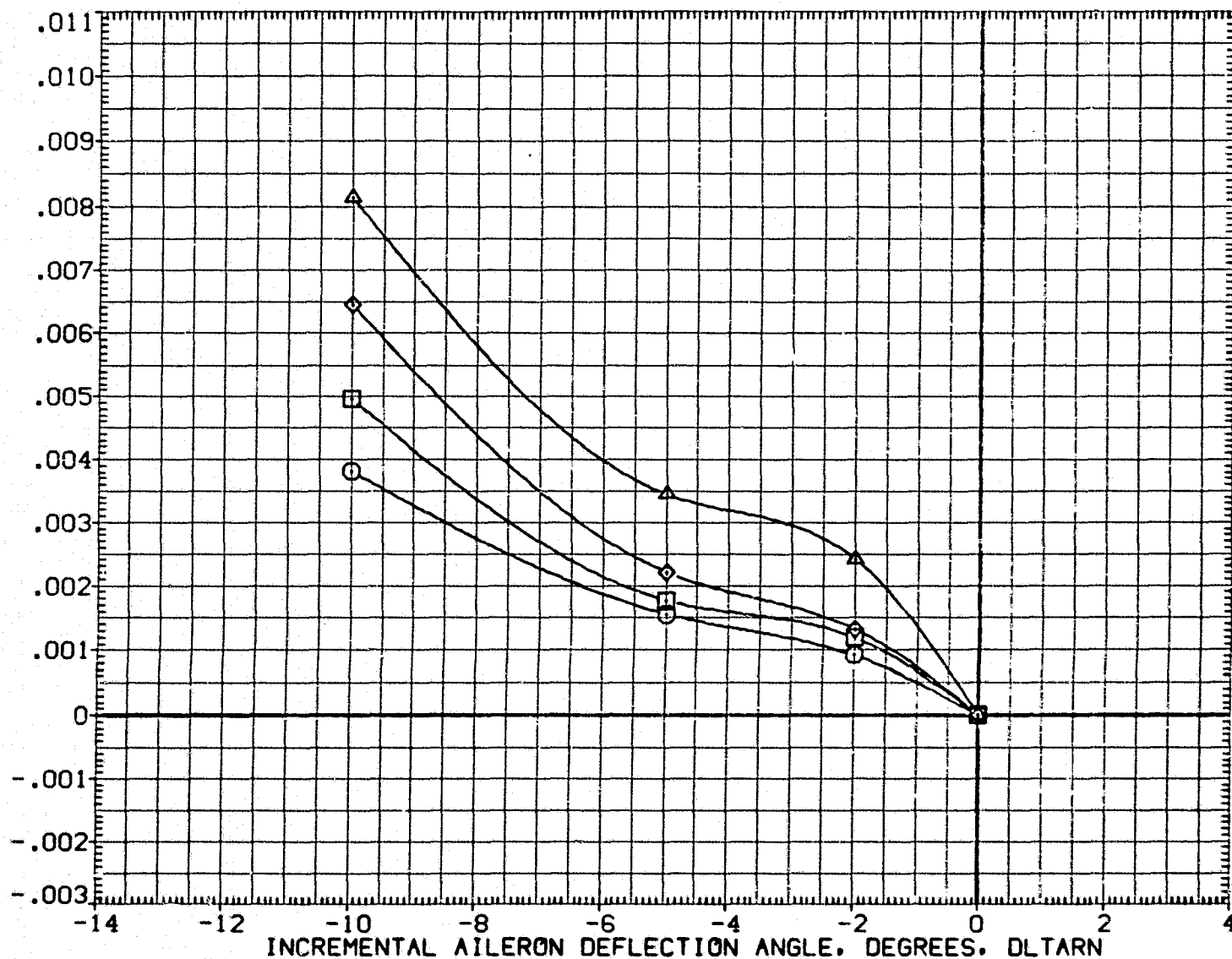


FIG. 17 INCREMENTAL EFFECTS OF FULL SPANAILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV018)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH

BETA
RUDDER

PARAMETRIC VALUES

5.000 SPDBRK
.000 BDFLAP
.000

85.000

DATASET

DTV018
DTV016

DATA SOURCE

DLTELO

-10.000
-2.000

DATASET

DTV017
DTV006

DLTELO

-5.000
.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCF

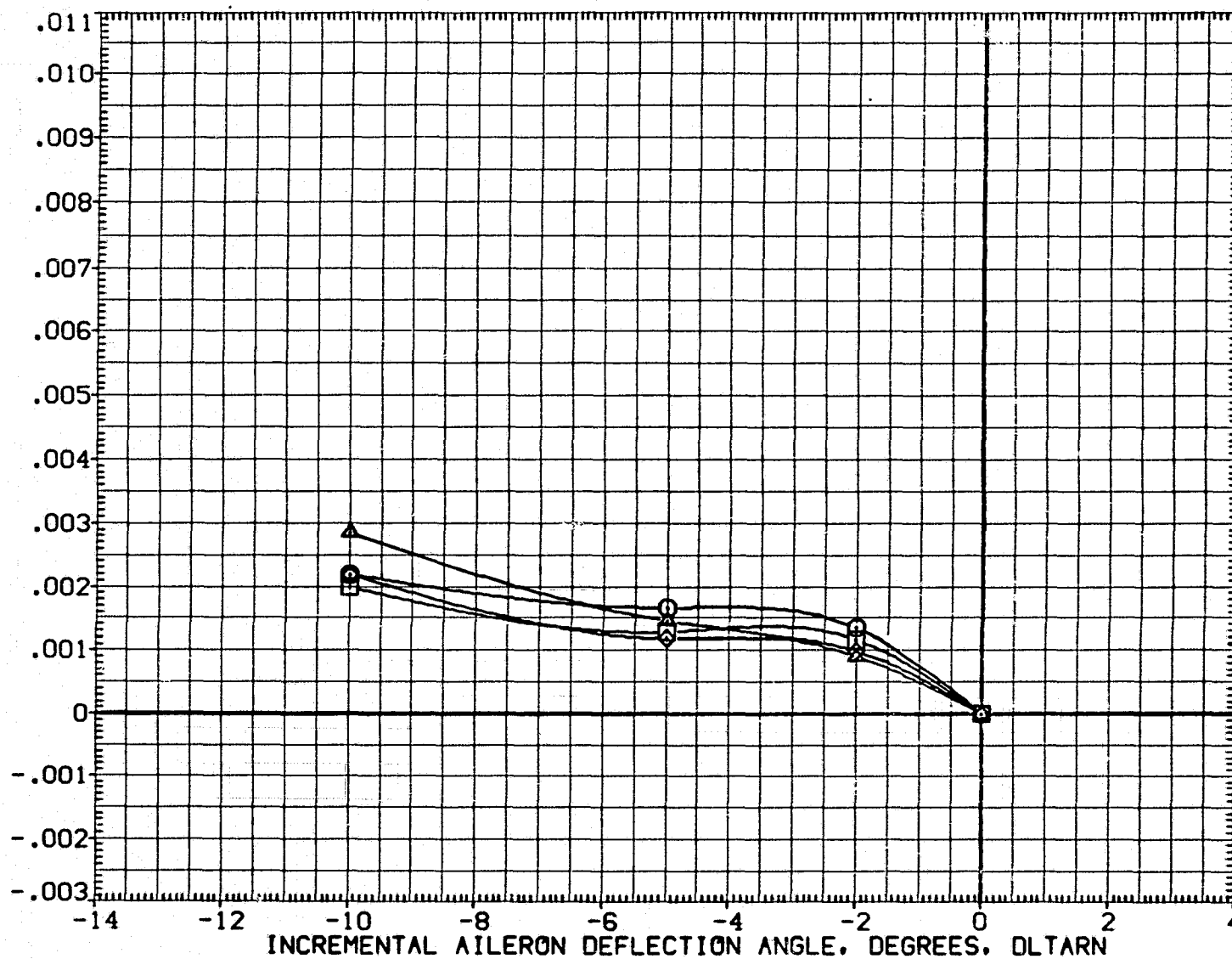


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(DTV018)

SYMBOL

○
□
◇
△

ALPHA

15.000

MACH

PARAMETRIC VALUES

5.000

SPOBRK

85.000

DATASET

DATA SOURCE

DLTEL0

DATASET

DLTEL0

-10.000

-2.000

DTV017

DTV006

-5.000

.000

REFERENCE INFORMATION

SREF

2690.0000

SQ.FT.

LREF

474.8100

IN.

BREF

936.6800

IN.

XMRP

1076.6800

IN.X0

YMRP

.0000

IN.Y0

ZMRP

375.0000

IN.Z0

SCALE

.0150

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCAP

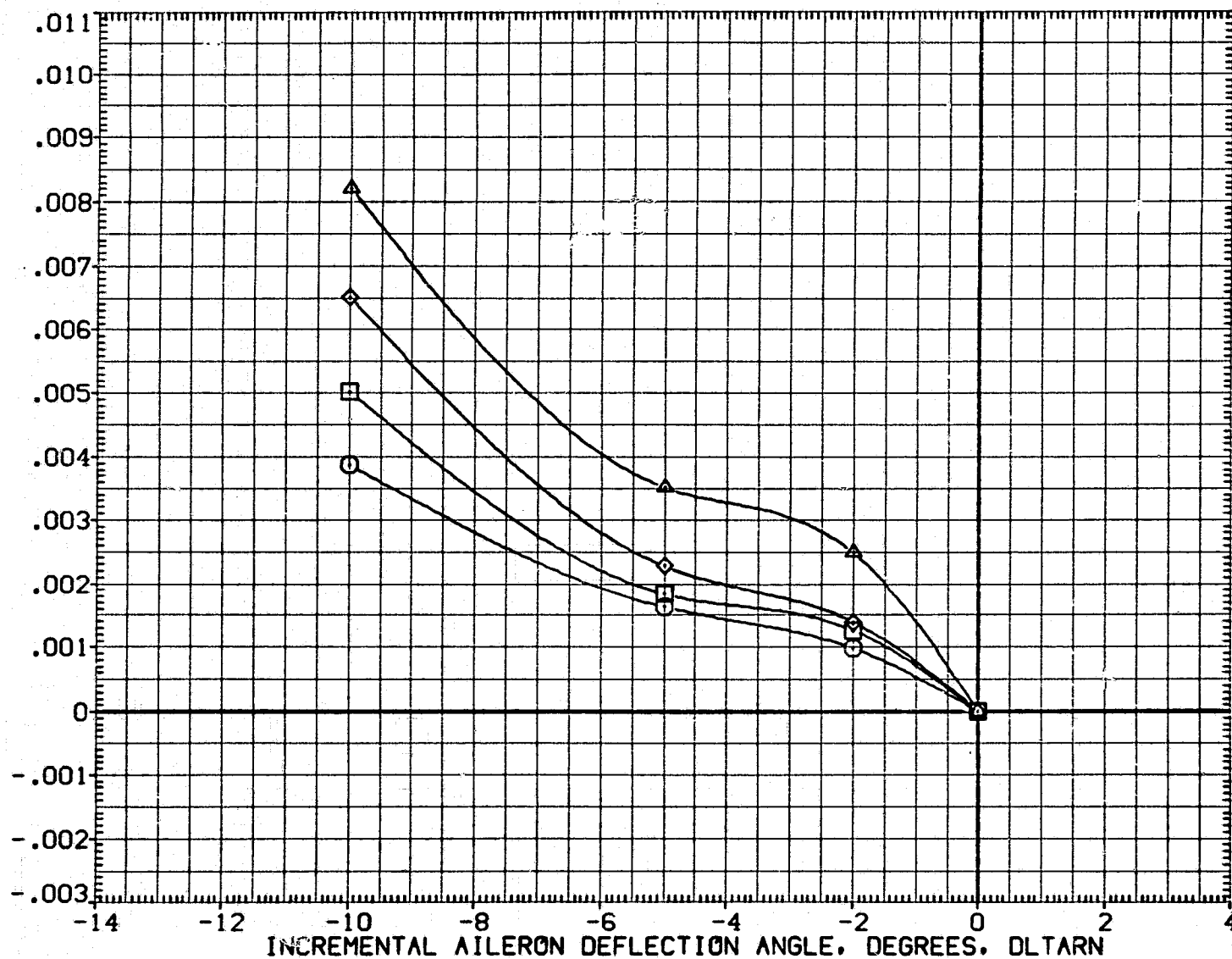


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	85.000	DATA SET	DATA SOURCE	DLTELO	DLTELO	DLTELO	SREF	2690.0000	SG.FT.
○	-3.000		5.000	SPDBRK						LREF	474.8100	IN.
□	.000	BETA	.000	BDFLAP						BREF	936.6800	IN.
◇	5.000	RUDDER	.000		CTV018		-10.000	CTV017	-5.000	XMRP	1076.6800	IN.X0
△	10.000				CTV016		-2.000	CTV006	.000	YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

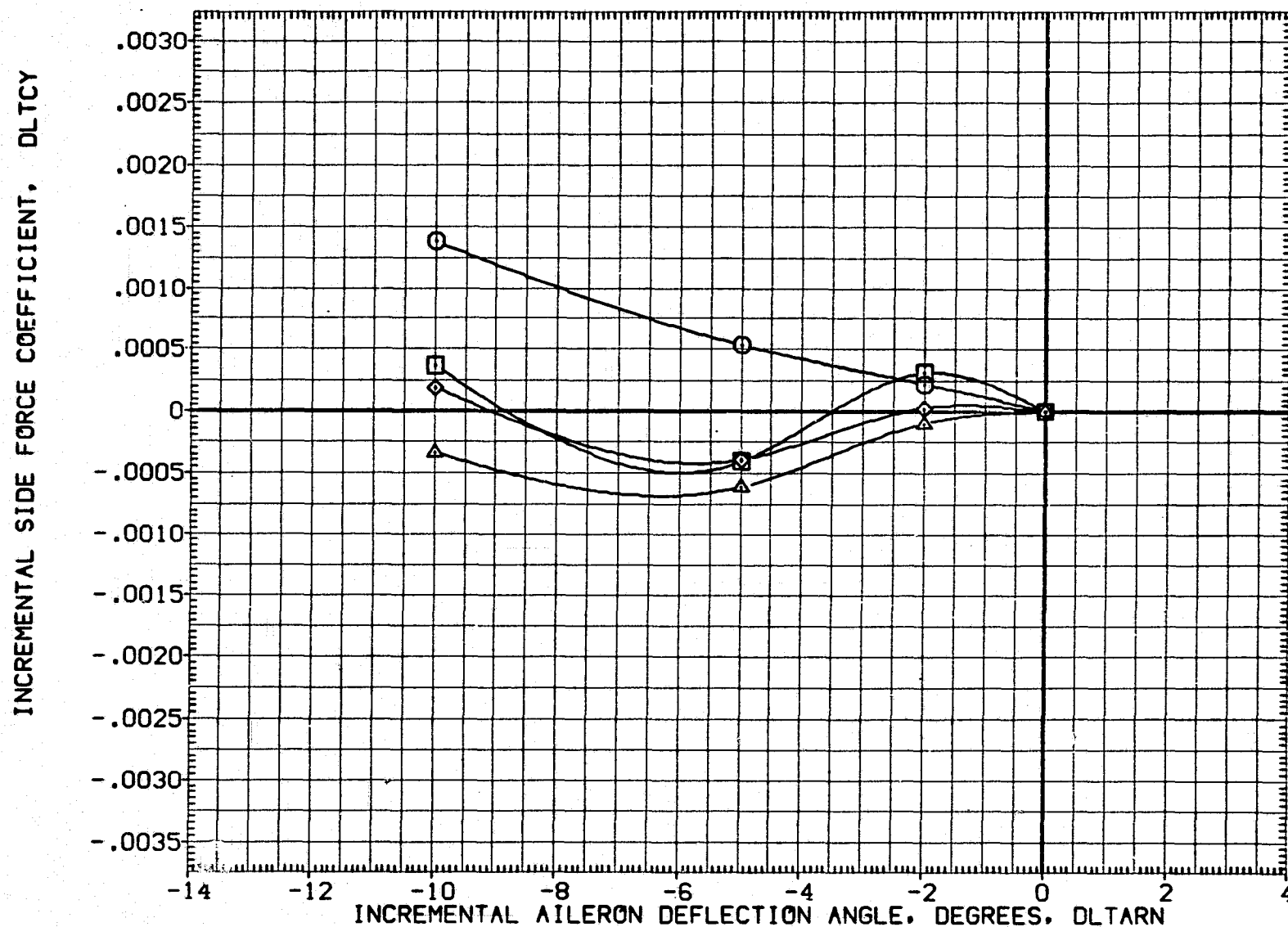


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL

○
□
◇
△

ALPHA

15.000

MACH

20.000

25.000

27.000

PARAMETRIC VALUES

5.000

SPDBRK

85.000

DATASET

DATA SOURCE

DLTEL0

DATASET

DLTEL0

-10.000

CTV017

-5.000

CTV005

REFERENCE INFORMATION

SREF

2690.0000

SQ.FT.

LREF

474.8100

IN.

BREF

936.6800

IN.

XMRP

1076.6800

IN.X0

YMRP

.0000

IN.Y0

ZMRP

375.0000

IN.Z0

SCALE

.0150

INCREMENTAL SIDE FORCE COEFFICIENT, DLTCY

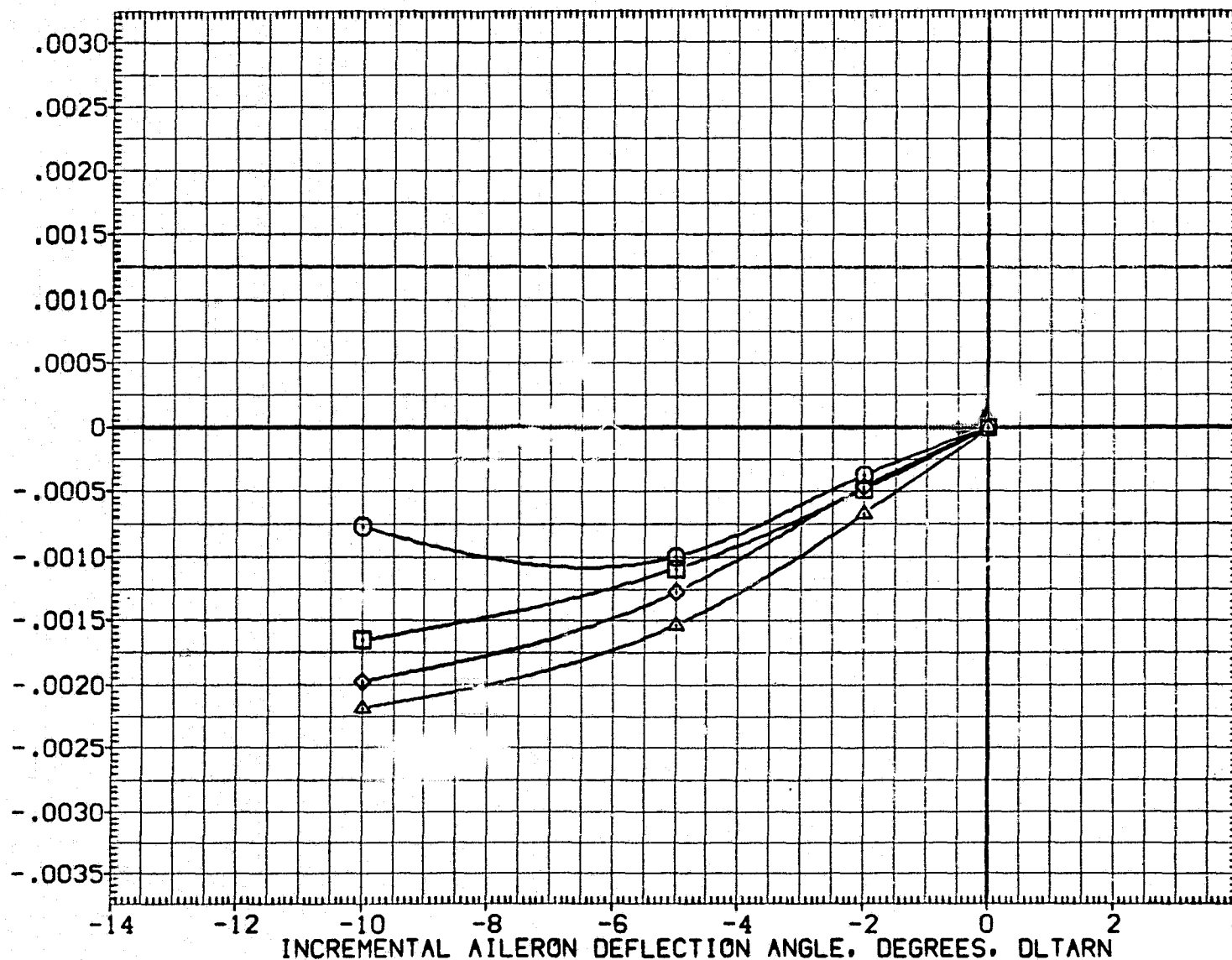


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	-3.000	MACH	5.000	SPDBRK	85.000	DATASET	DLTELO	GATASET	DLTELO	SREF	2690.0000	SO.FT.
□	.000	BETA	.000	BDFLAP	.000	CTV018	-10.000	CTV017	-5.000	LREF	474.8100	IN.
◇	5.000	RUDDER	.000			CTV016	-2.000	CTV006	.000	BREF	936.6800	IN.
△	10.000									XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL YAWING MOMENT COEFFICIENT, DLTCYN

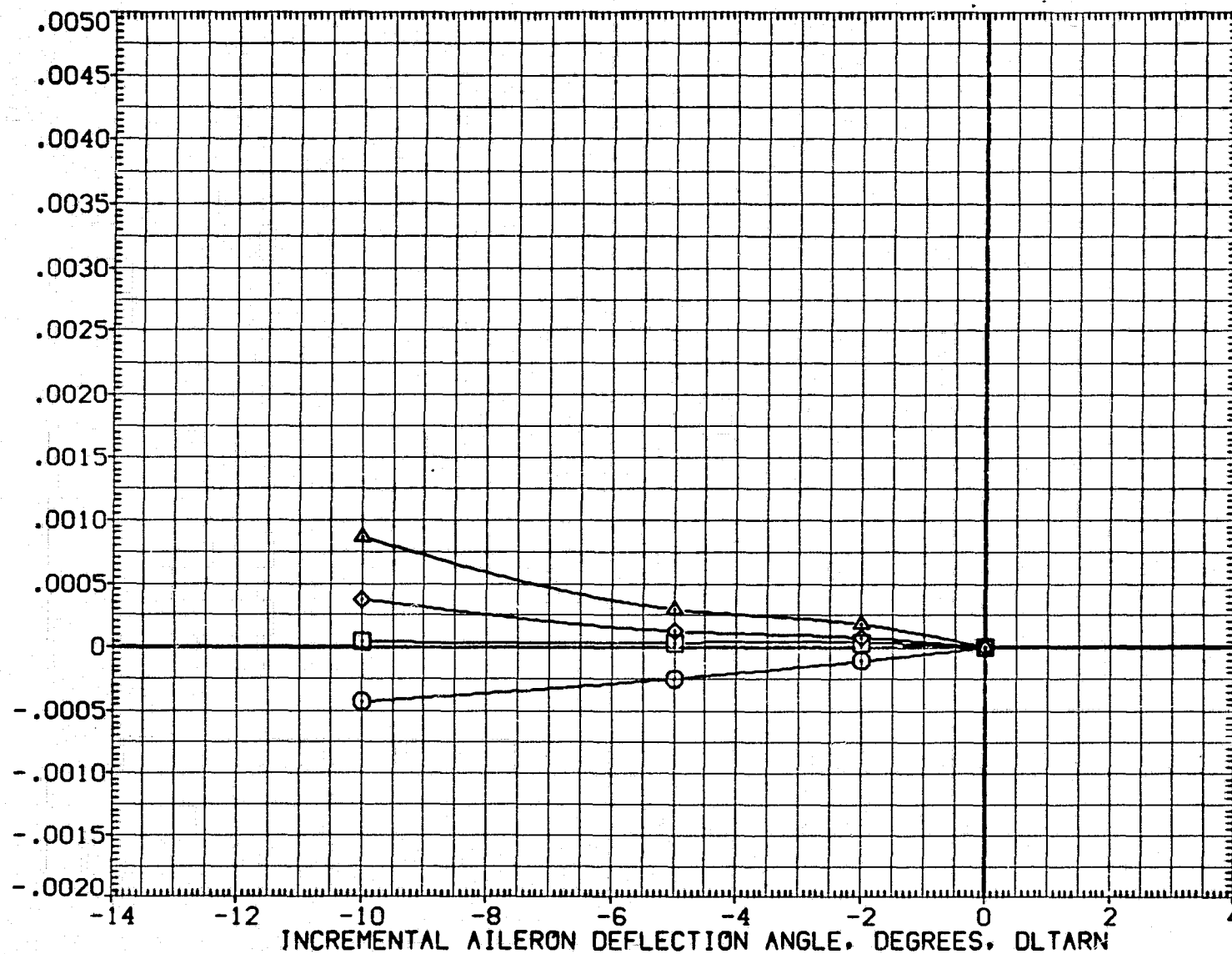


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	15.000	MACH	5.000	SPOBRK	85.000	DATASET	DLTEL0	DATASET	DLTEL0	SREF	2690.0000	SG.FT.
□	20.000	BETA	.000	BDFLAP	.000	CTV018	-10.000	CTV017	-5.000	LREF	474.8100	IN.
◇	25.000	RUDDER	.000			CTV016	-2.000	CTV006	.000	BREF	936.6800	IN.
△	27.000									XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL YAWING MOMENT COEFFICIENT, DLTCYN

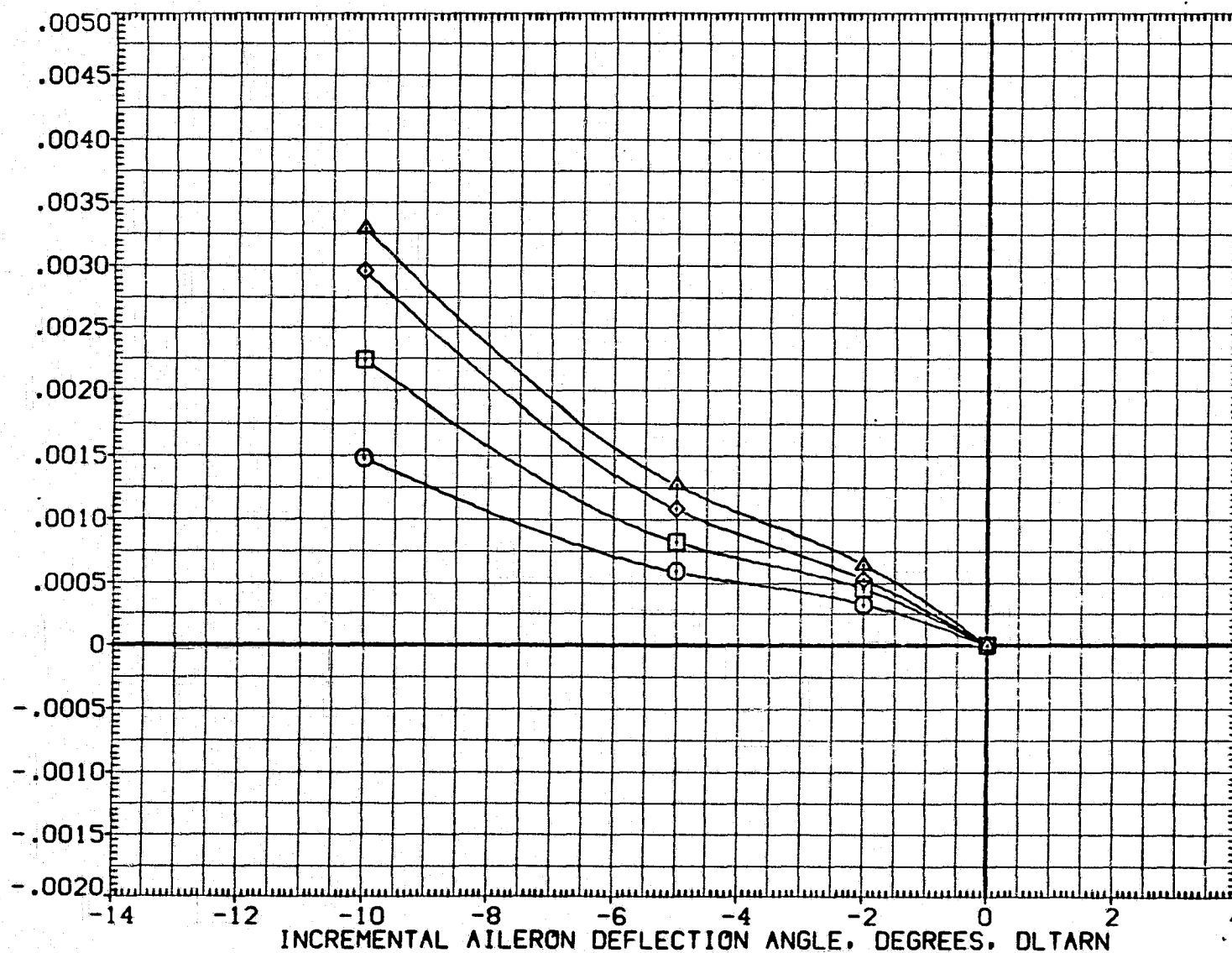


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL

○
□
◇
△

ALPHA

-3.000
.000
5.000
10.000

MACH

BETA

RUDDER

PARAMETRIC VALUES

5.000 SPDBRK
.000 BDFLAP
.000

85.000

DATASET

CTV018
CTV016

DATA SOURCE

DLTELO
-10.000
-2.000

DATASET

CTV017
CTV006

DLTELO

-5.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.X0
YMRP .0000 IN.Y0
ZMRP 375.0000 IN.Z0
SCALE .0150

INCREMENTAL ROLLING MOMENT COEFFICIENT, DLTCBL

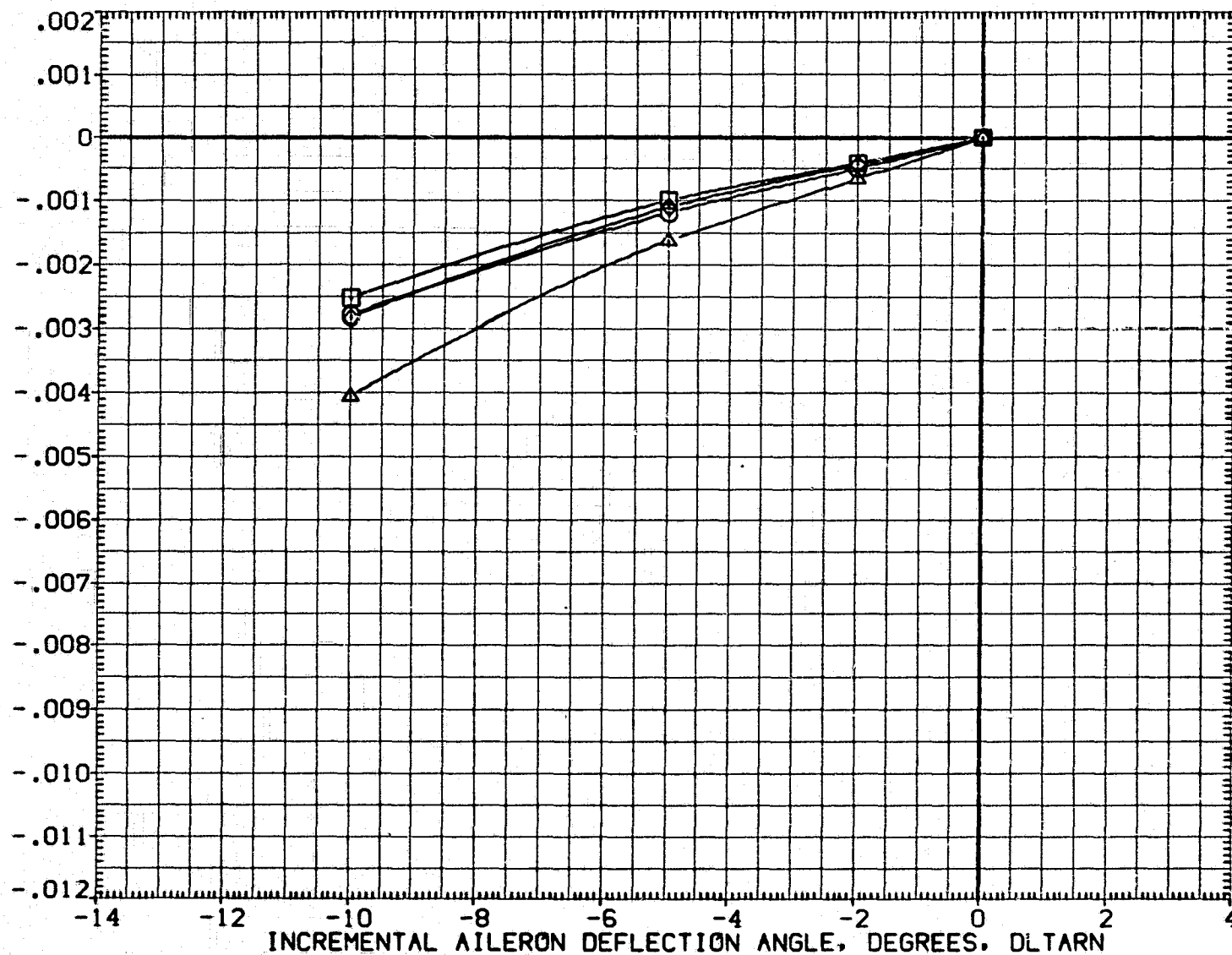


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(CTV018)

SYMBOL

○
□
◇
△

ALPHA

15.000

MACH

PARAMETRIC VALUES

5.000

SPDBRK

85.000

DATASET

DATA SOURCE

DLTELO

-10.000

DATASET

CTV017

DLTELO

-5.000

REFERENCE INFORMATION

SREF

2690.0000

SQ.FT.

LREF

474.8100

IN.

BREF

936.6800

IN.

XMRP

1076.6800

IN.X0

YMRP

.0000

IN.Y0

ZMRP

375.0000

IN.Z0

SCALE

.0150

INCREMENTAL ROLLING MOMENT COEFFICIENT, DLTCBL

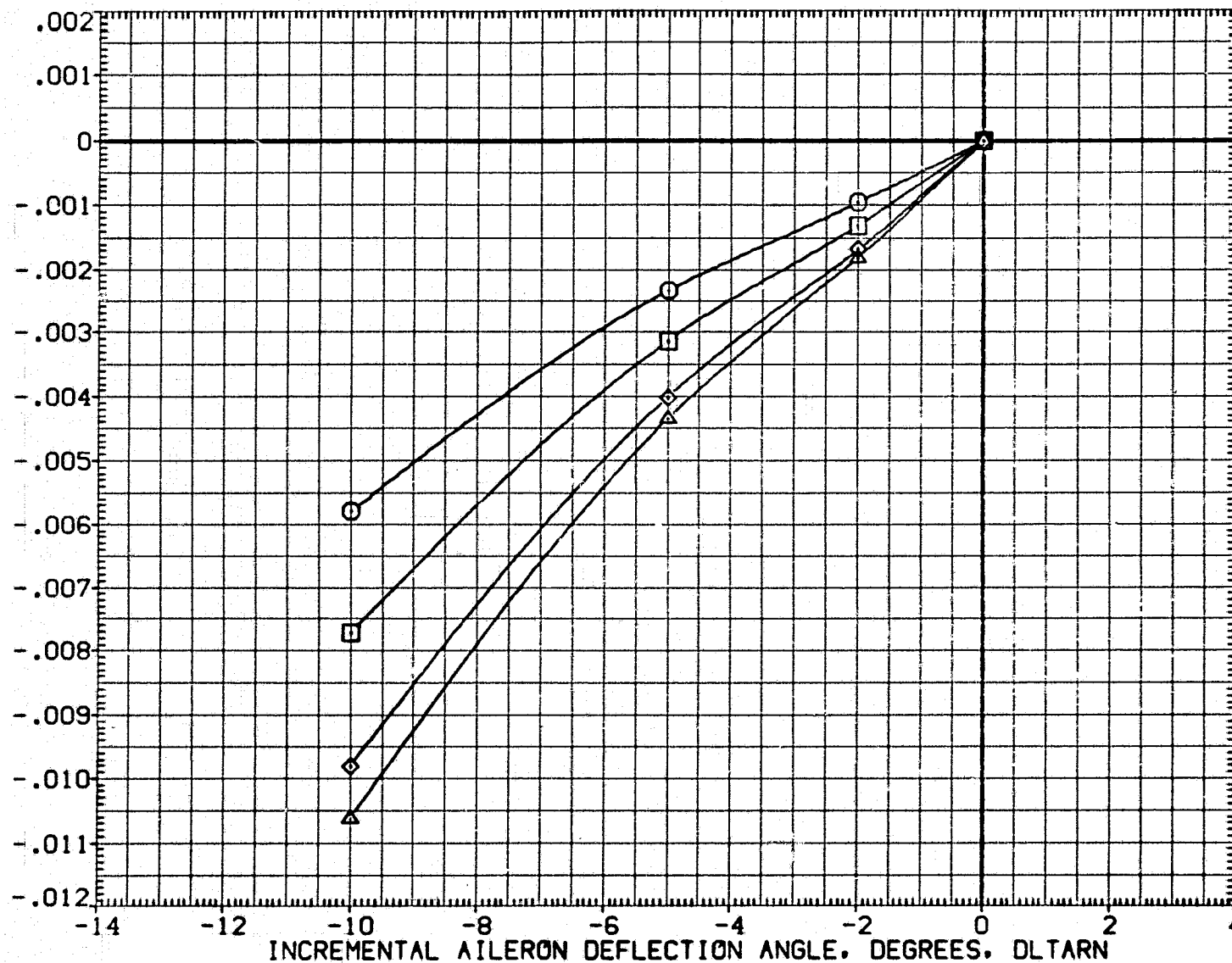


FIG. 17 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL

○
□
◇
△

ALPHA

-2.000
.000
2.000
4.000

MACH

BOFLAP

RUDDER

PARAMETRIC VALUES

5.000
.000
.000

BETA

SPDRK

.000
85.000DATASET
ATV018
ATV016

DATA SOURCE

ELV-L0
-10.000
-2.000DATASET
ATV017
ATV006ELV-L0
-5.000
.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

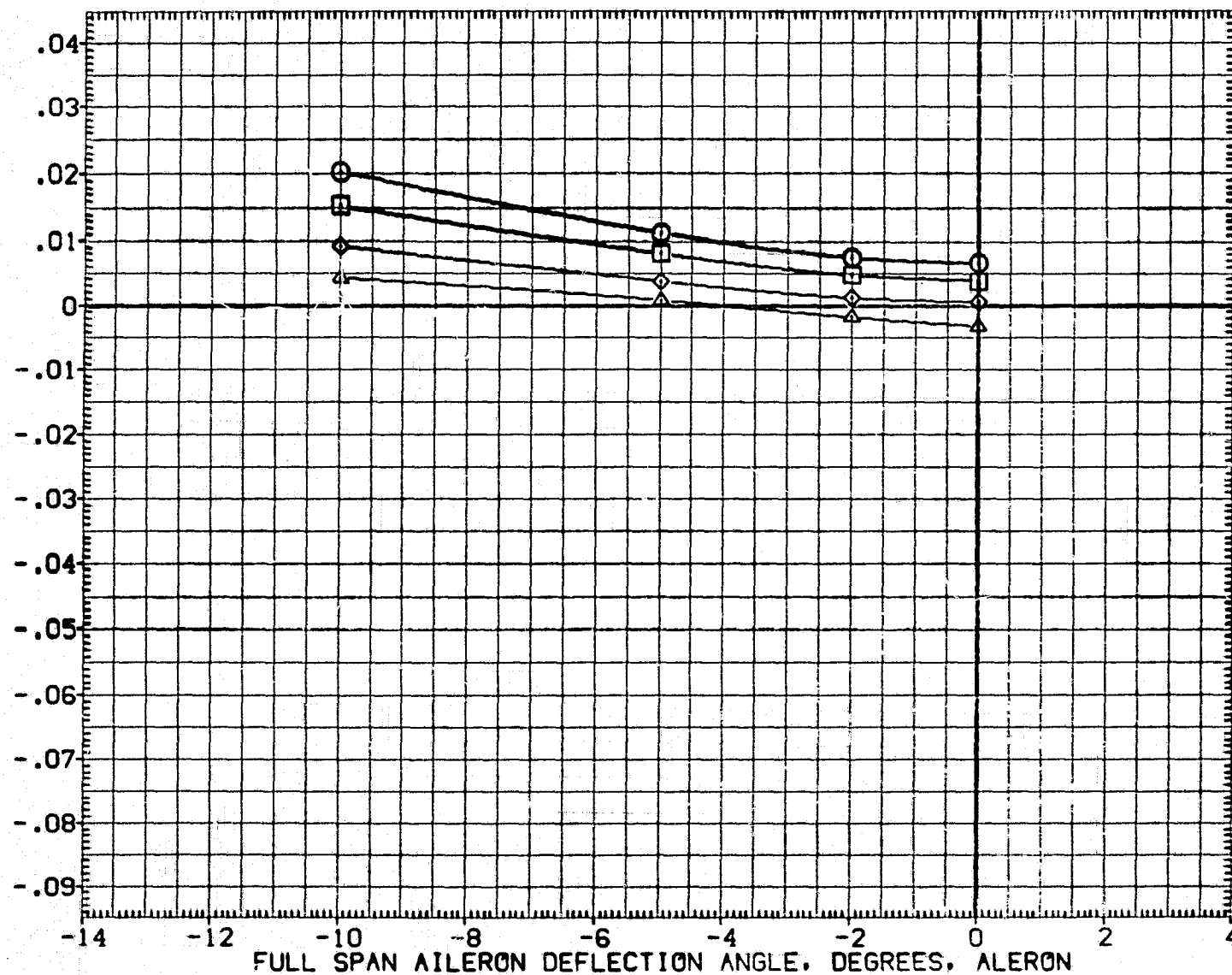


FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	50.FT.
○	6.000		5.000							LREF	474.8100	IN.
□	8.000	BOFLAP	.000	SPOBRK	85.000	ATV018	-10.000	ATV017	-5.000	BREF	936.6800	IN.
◇	10.000	RUDDER	.000			ATV016	-2.000	ATV006	.000	XMRP	1076.6800	IN.X0
△	12.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

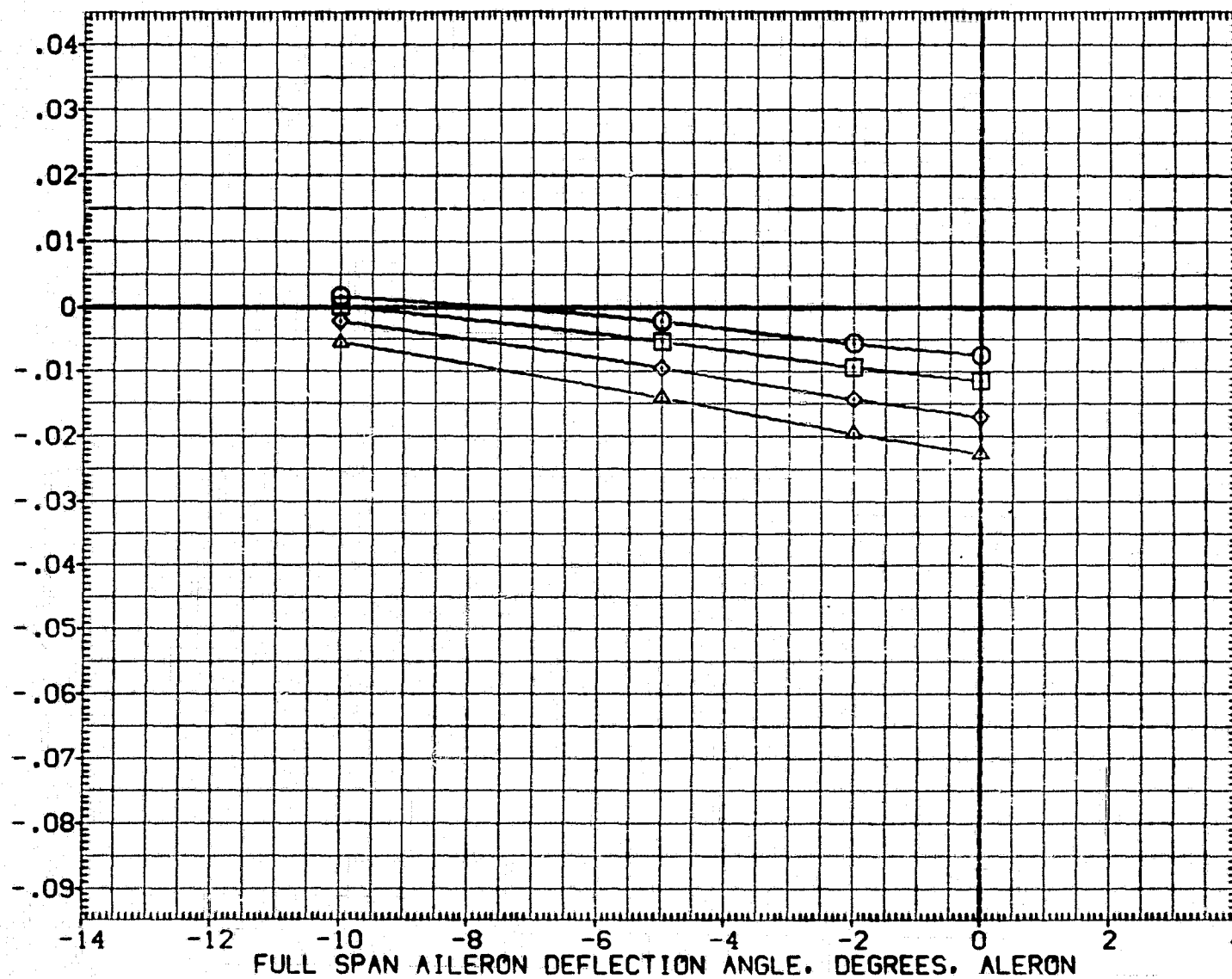


FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	SQ.FT.
○	14.000		5.000							LREF	474.8100	IN.
□	16.000	BDFLAP	.000	SPOBRK	85.000	ATV018	-10.000	ATV017	-5.000	BREF	936.6800	IN.
◇	18.000	RUDDER	.000			ATV016	-2.000	ATV006	.000	XMRP	1076.6800	IN.X0
△	20.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INBOARD ELEVON HINGE MOMENT, COEFFICIENT, CHEI

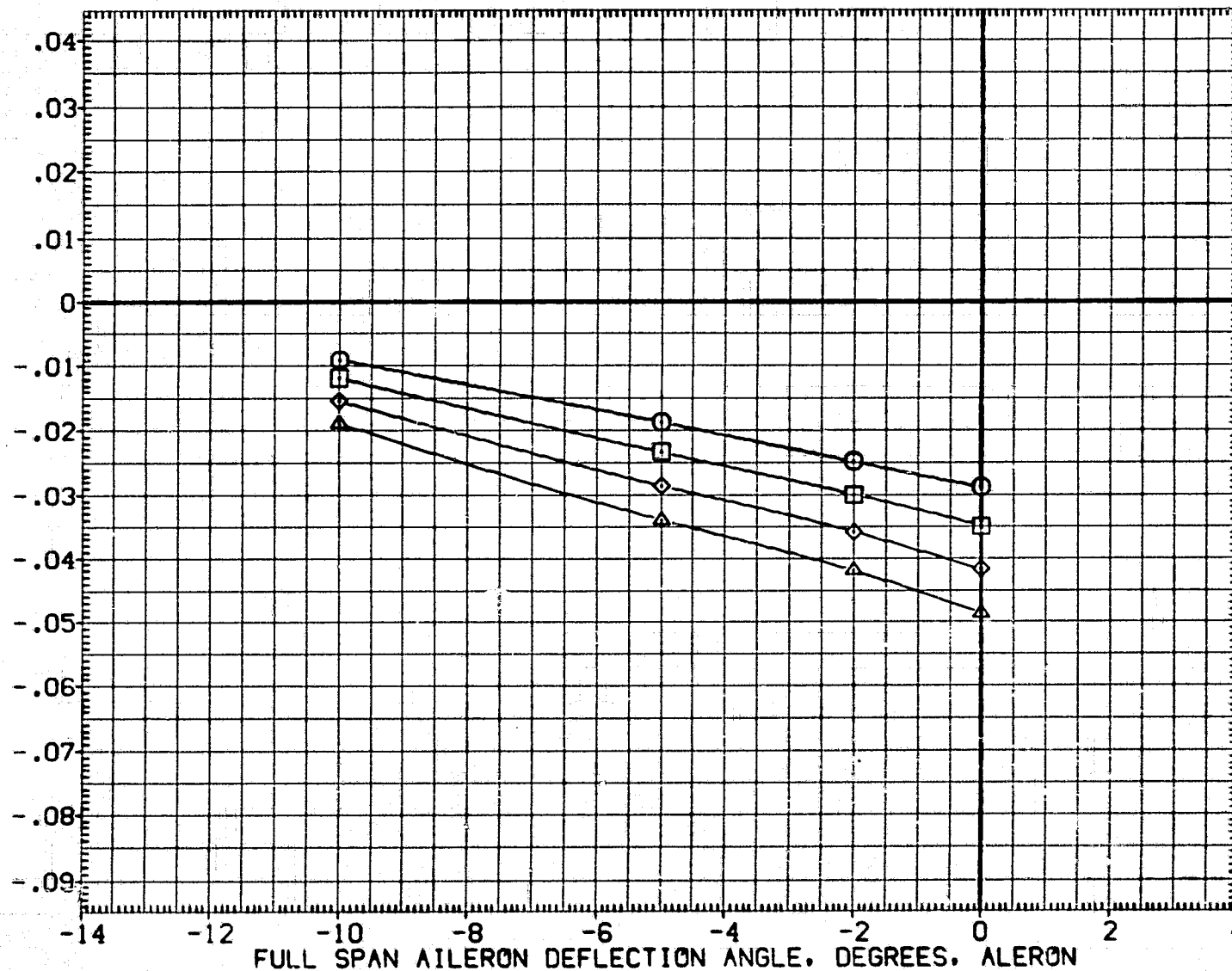


FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL

○
□
◇

ALPHA

22.000

MACH

80FLAP

RUDDER

PARAMETRIC VALUES

5.000

BETA

SPDBRK

.000

.000

DATASET

ATV018

ATV016

DATA SOURCE

ELV-L0

-10.000

-2.000

DATASET

ATV017

ATV006

ELV-L0

-5.000

.000

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8100

BREF 936.6800

XMRP 1076.6800

YMRP .0000

ZMRP 375.0000

SCALE .0150

50.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

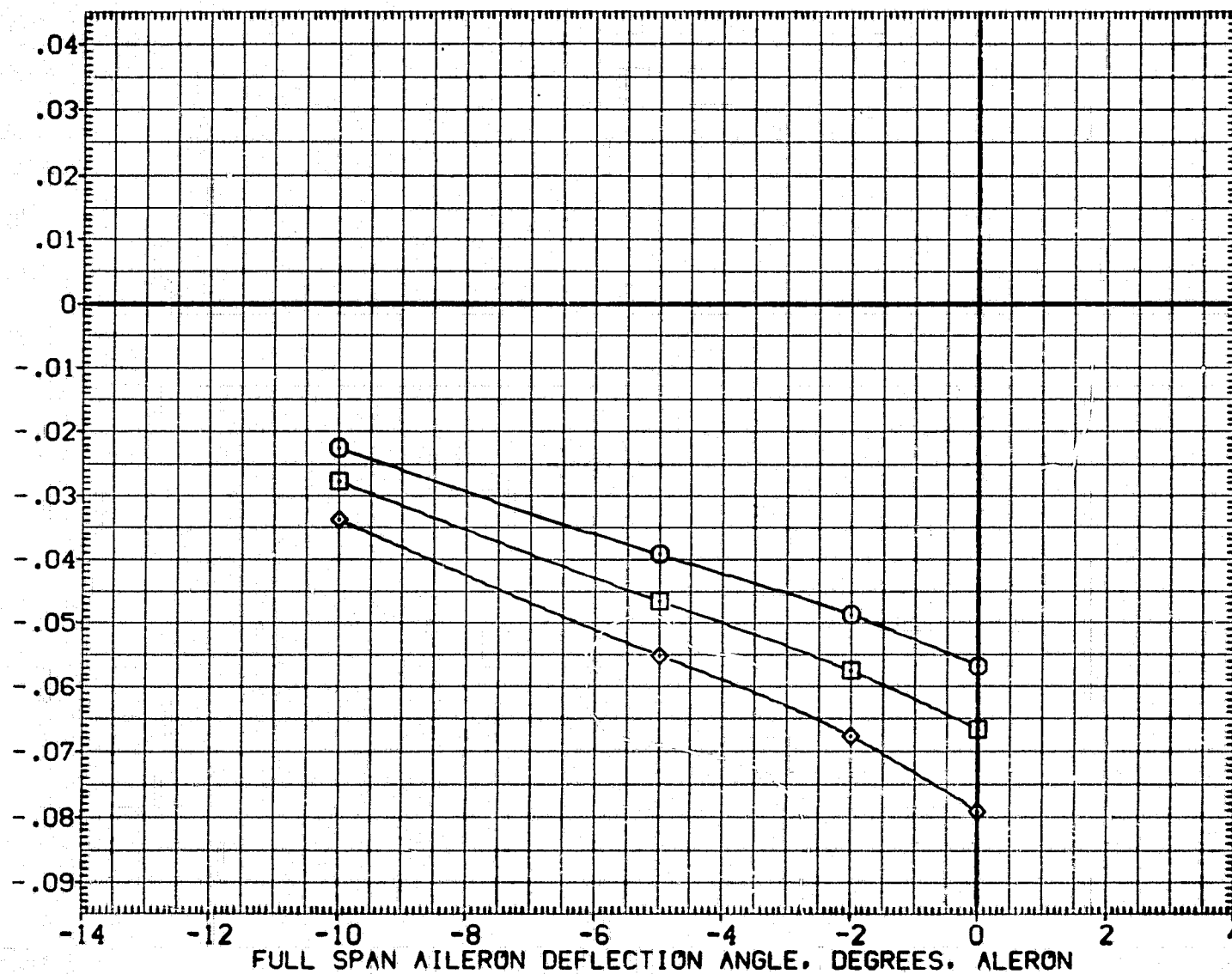


FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	50.FT.
○	-2.000									LREF	474.8100	IN.
□	.000	BOFLAP	.000	SPDBRK	85.000	ATV018	-10.000	ATV017	-5.000	BREF	936.6800	IN.
◇	2.000	RUDDER	.000			ATV016	-2.000	ATV006	.000	XMRP	1076.6800	IN.X0
△	4.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

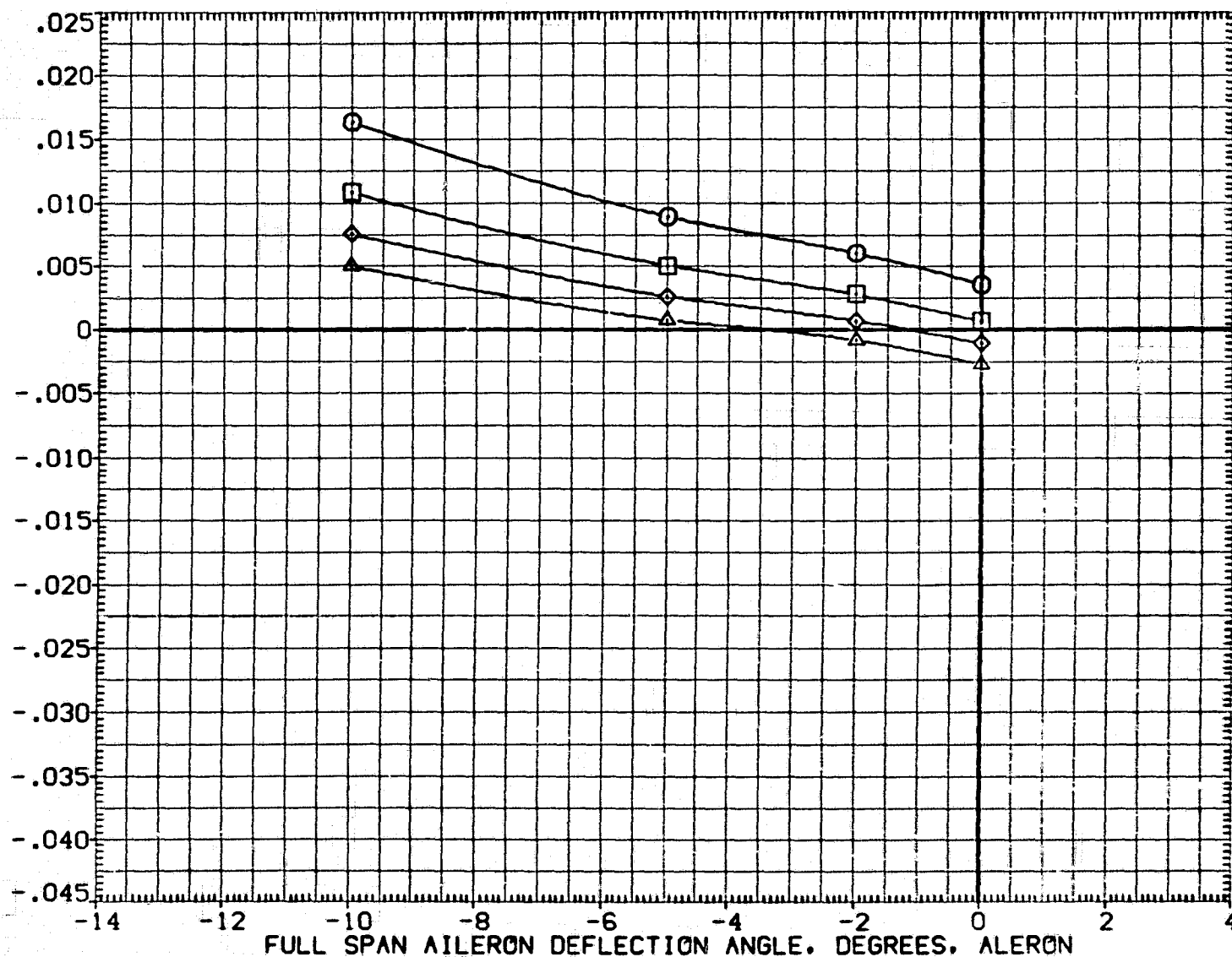


FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	50.FT.
○	6.000	80FLAP	.000	SPDBRK	85.000	ATV018	-10.000	ATV017	-5.000	LREF	474.8100	IN.
□	8.000	RUDDER	.000			ATV016	-2.000	ATV006	.000	BREF	936.6800	IN.
◇	10.000									XMRP	1076.6800	IN.X0
△	12.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

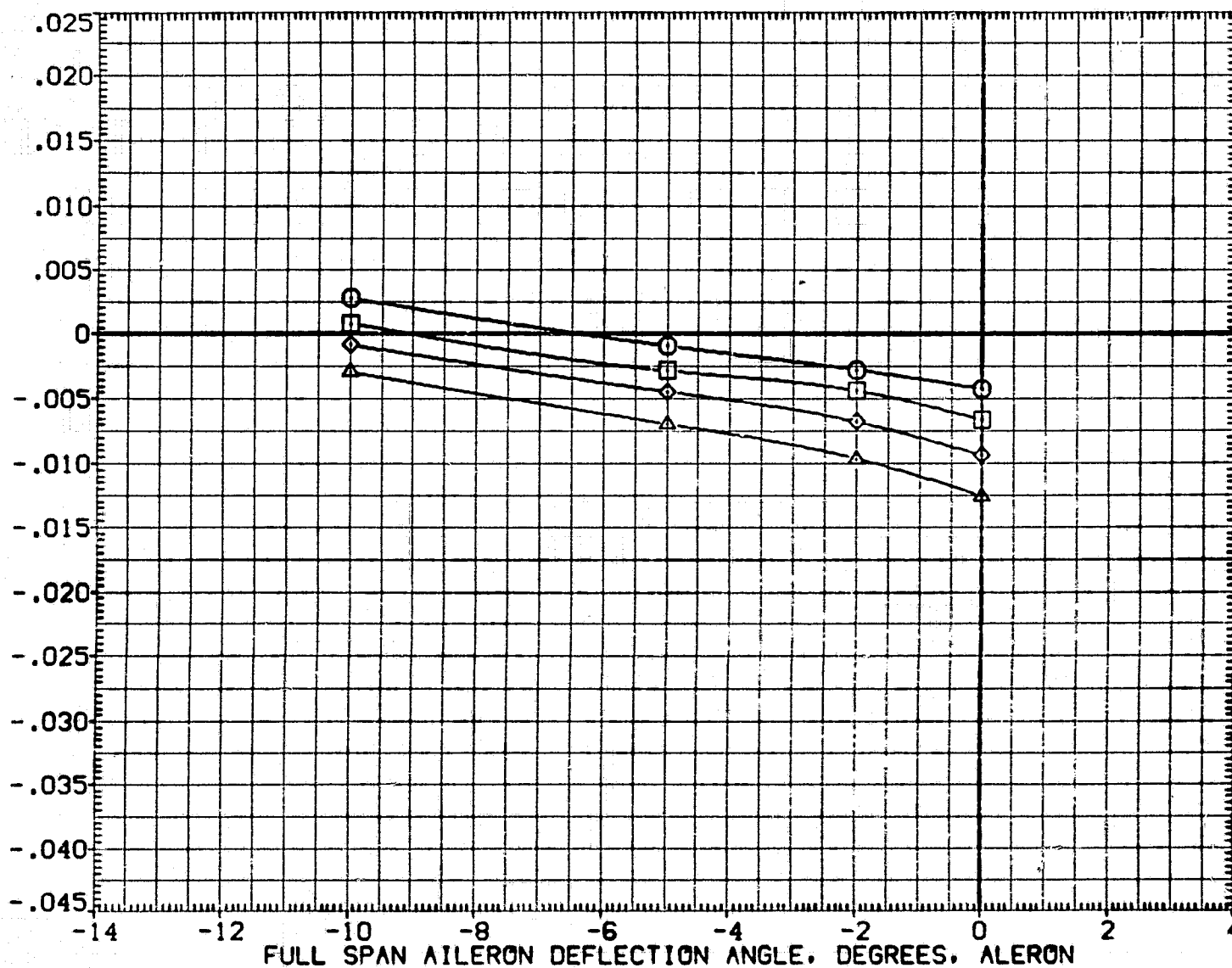
OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, C_{HE0} 

FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	SQ.FT.
○	14.000		5.000							LREF	474.8100	IN.
□	16.000	BOFLAP	.000	SPDBRK	85.000	ATV018	-10.000	ATV017	-5.000	BREF	936.6800	IN.
◇	18.000	RUDDER	.000			ATV016	-2.000	ATV006	.000	XMRP	1076.6800	IN.X0
△	20.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

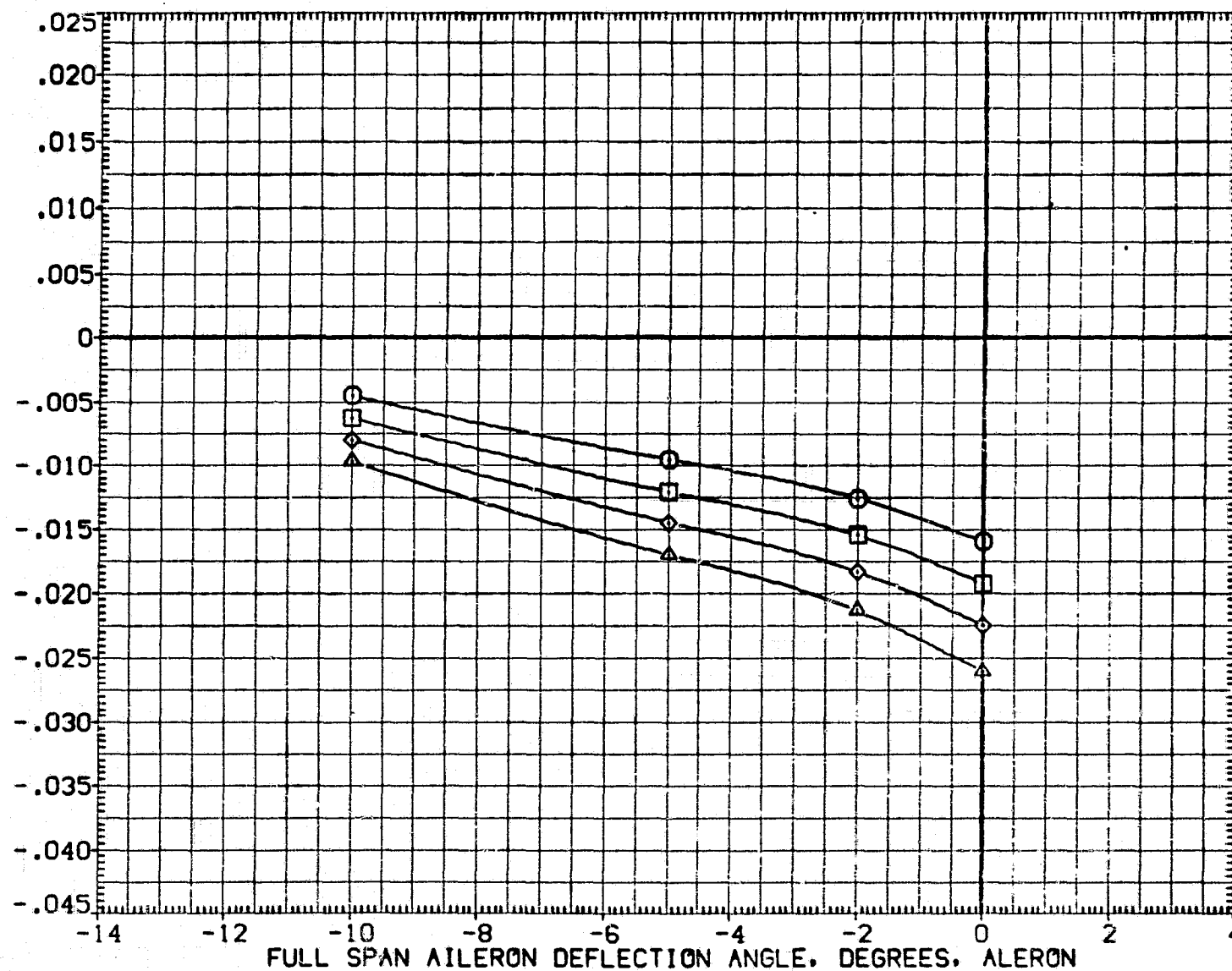
OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, C_{HEO} 

FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL

○
□
◇

ALPHA

22.000

MACH

BDFLAP

RUDDER

PARAMETRIC VALUES

5.000

BETA

SPDBRK

.000 DATASET

85.000 ATV018

ATV016

DATA SOURCE

ELV-L0

-10.000

-2.000

DATASET

ATV017

ATV006

ELV-L0

-5.000

.000

REFERENCE INFORMATION

SREF 2690.0000

LREF 474.8100

BREF 936.6800

XMRP 1076.6800

YMRP .0000

ZMRP 375.0000

SCALE .0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

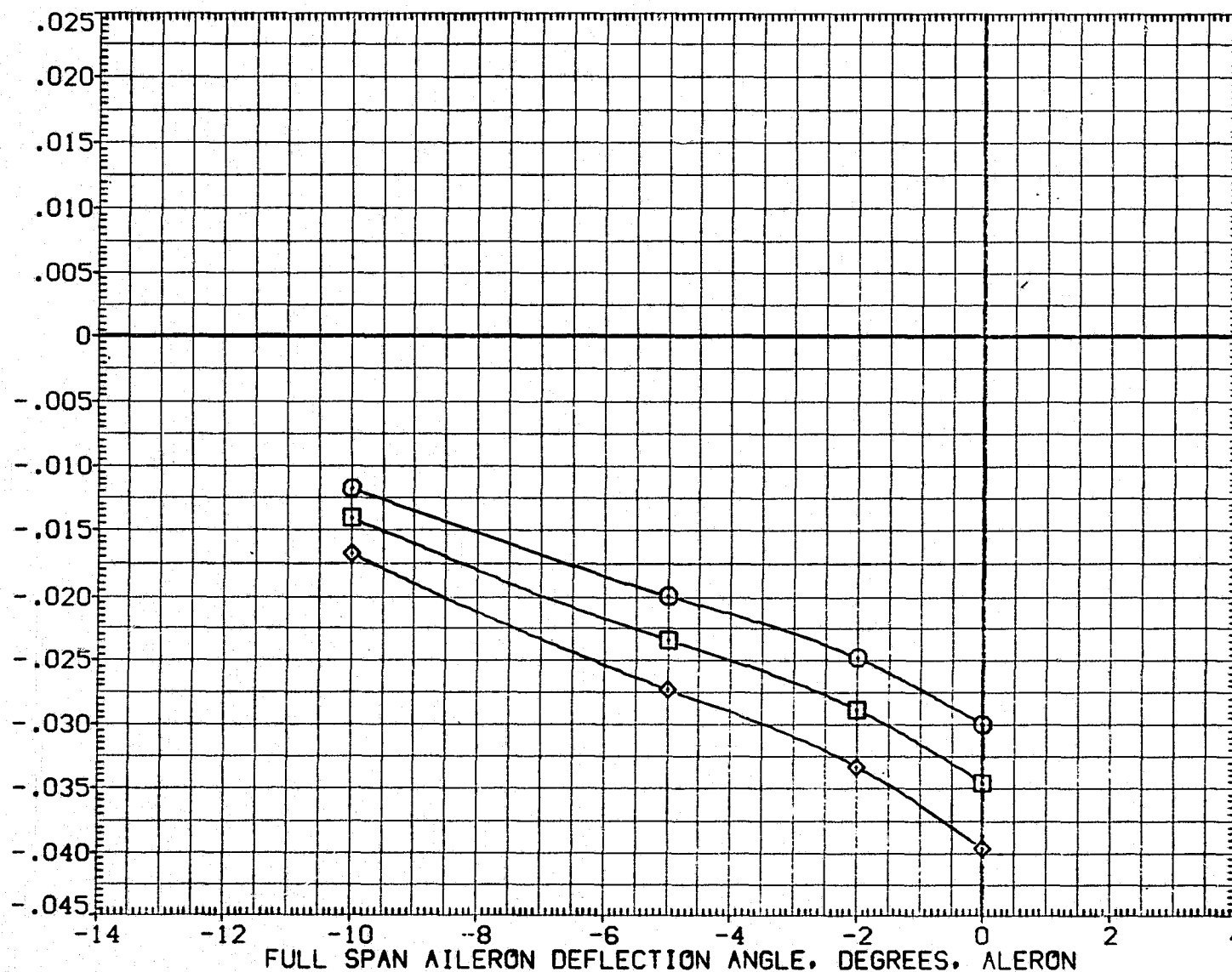


FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL
○
□
◇
△

ALPHA

-2.000

MACH

BDFLAP

RUDDER

4.000

PARAMETRIC VALUES

5.000

BETA

SPDBRK

85.000

DATASET

ATV018

ATV016

DATA SOURCE

ELV-L0

-10.000

-2.000

DATASET

ATV017

ATV006

ELV-L0

-5.000

.000

REFERENCE INFORMATION

SREF

2690.0000

SQ.FT.

LREF

474.8100

IN.

BREF

936.6800

IN.

XMRP

1076.6800

IN.X0

YMRP

.0000

IN.Y0

ZMRP

375.0000

IN.Z0

SCALE

.0150

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

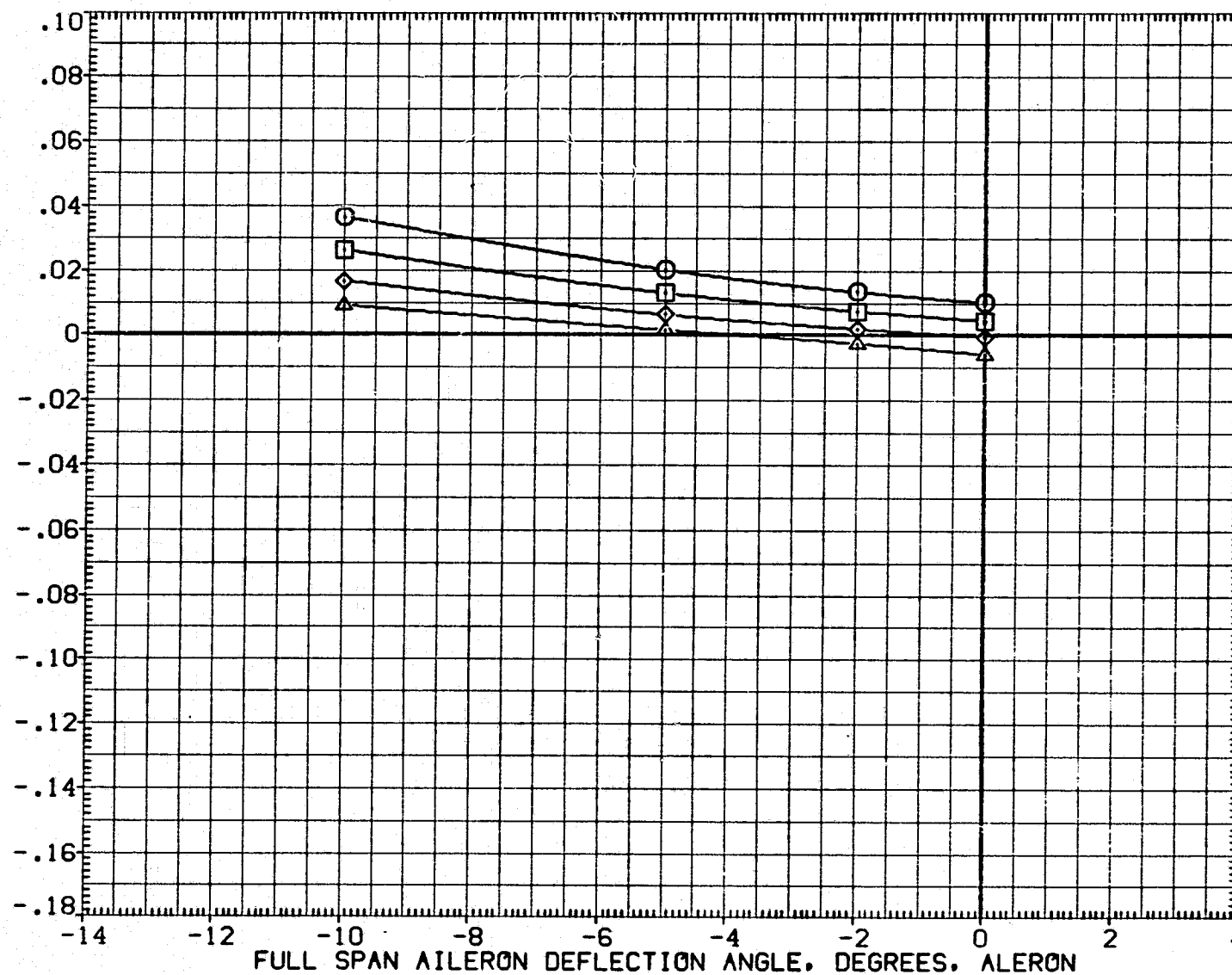


FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	SQ.FT.
○	6.000	BOFLAP	.000	SPOBRK	85.000	ATV018	-10.000	ATV017	-5.000	LREF	474.8100	IN.
□	8.000	RUDDER	.000			ATV016	-2.000	ATV006	.000	BREF	936.6800	IN.
◇	10.000									XMRP	1076.6800	IN.X0
△	12.000									YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHE1 + CHE0)

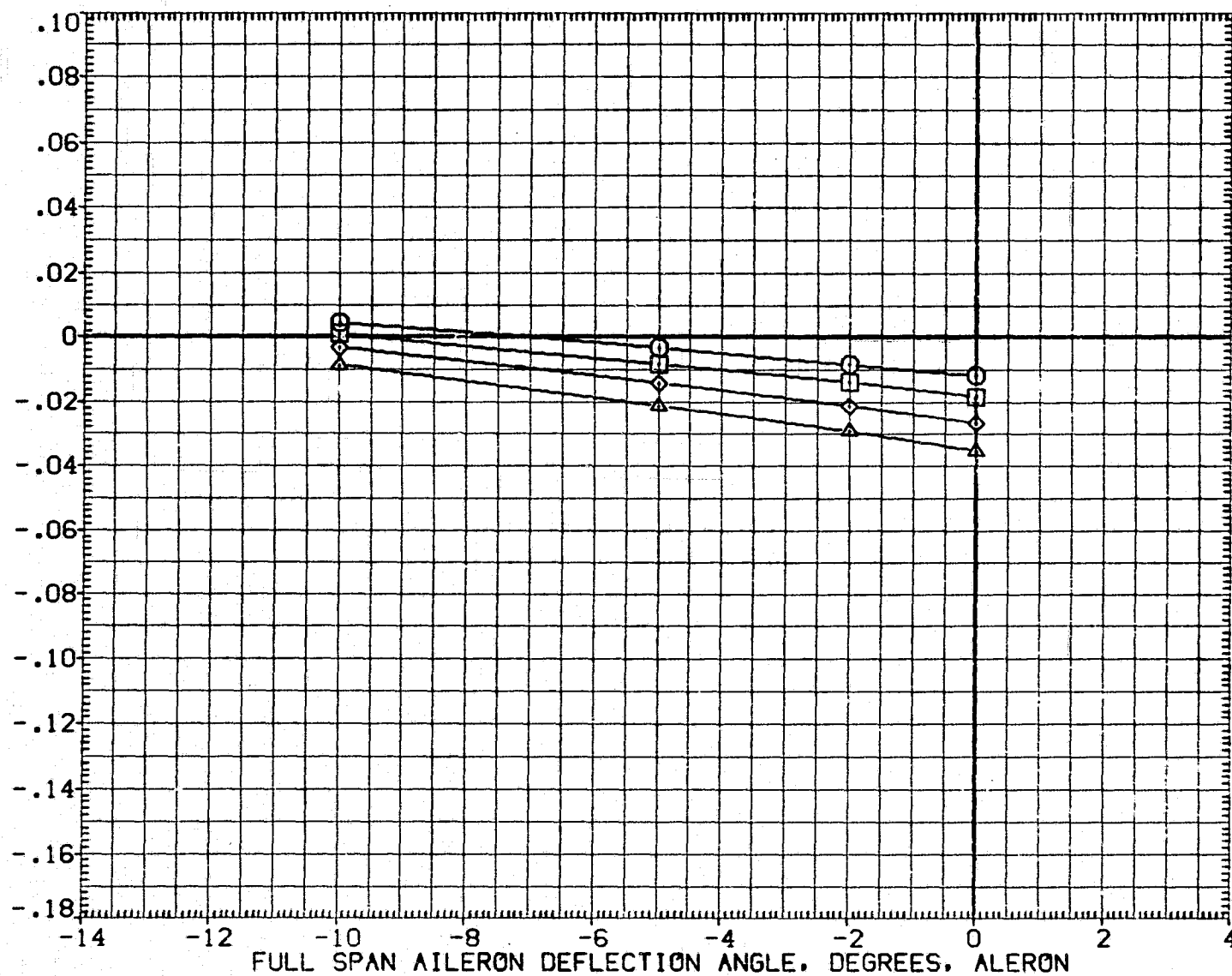


FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL

○
□
◇
△

ALPHA

14.000

MACH

5.000

PARAMETRIC VALUES

BETA

.000

SPDBRK

.000

DATASET

85.000

ATV018

ATV016

DATA SOURCE

ELV-L0

-10.000

-2.000

DATASET

ATV017

ATV006

ELV-L0

-5.000

.000

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

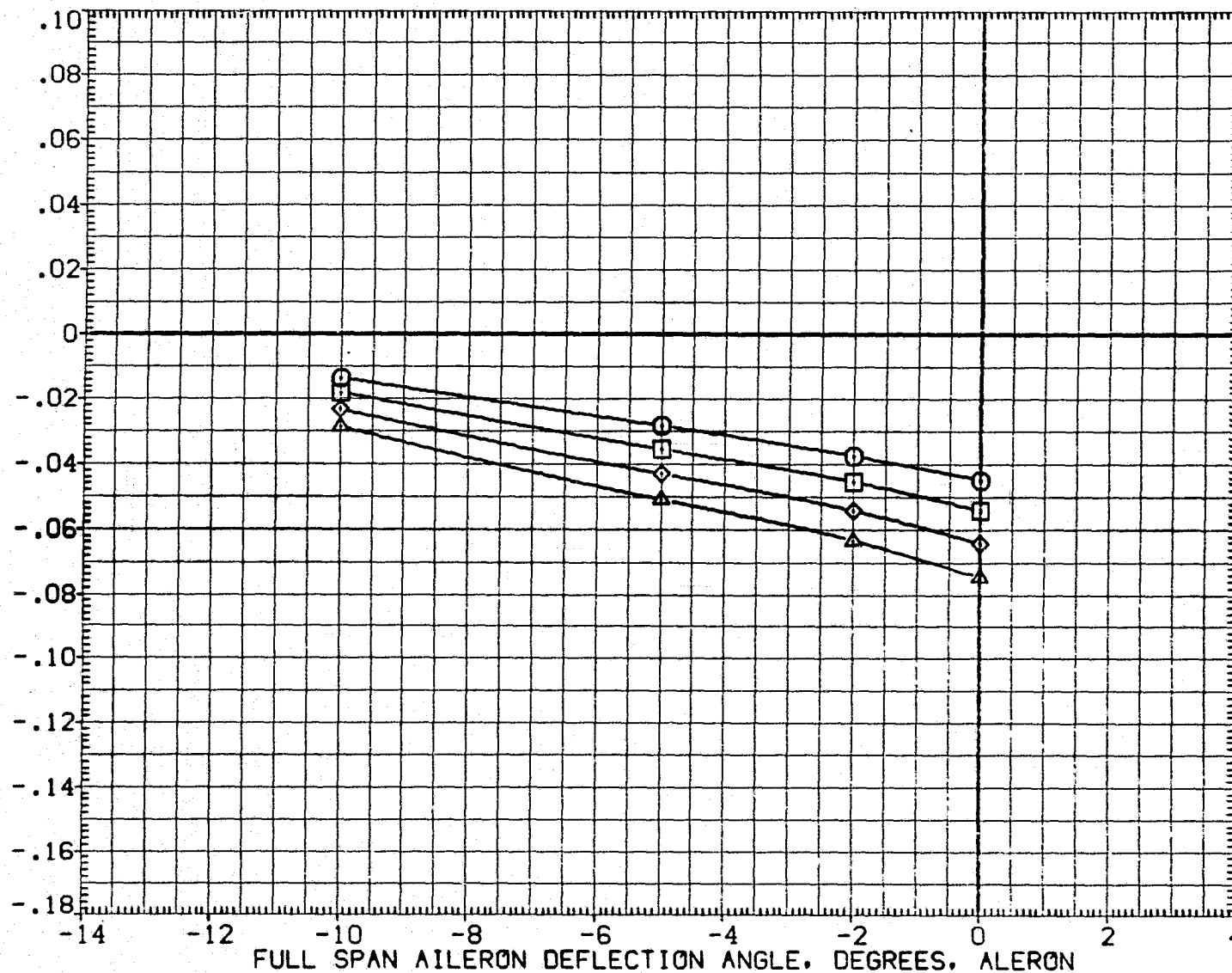


FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018)

SYMBOL

○
□
◇

ALPHA

22.000

MACH

BDFLAP

RUDDER

PARAMETRIC VALUES

5.000

BETA

SPDBRK

.000

85.000

DATASET

ATV018

ATV016

DATA SOURCE

ELV-L0

-10.000

-2.000

DATASET

ATV017

ATV006

ELV-L0

-5.000

.000

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

2690.0000

474.8100

936.6800

1076.6800

.0000

375.0000

.0150

SQ.FT.

IN.

IN.

IN.X0

IN.Y0

IN.Z0

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET (CHEI + CHEO)

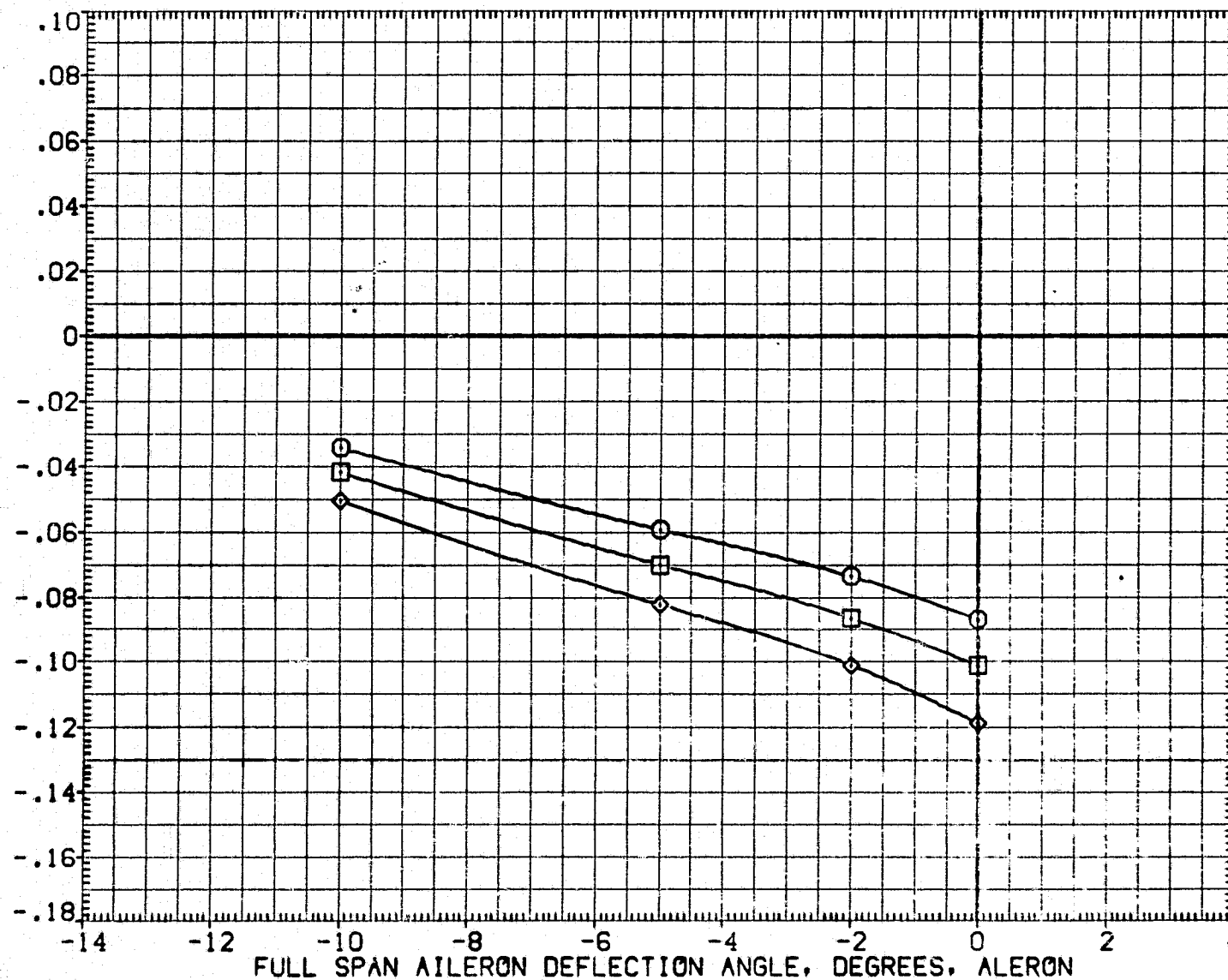


FIG. 18 AILERON HINGE MOMENTS- FULL SPAN DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ALERON	DATASET	ALERON	SREF	2690.0000	50.FT.
□	.000	ELV-08	5.000	SPOBRK	85.000	0TV006	.000	0TV016	-2.000	LREF	474.8100	IN.
◇	5.000		.000			0TV017	-5.000	0TV018	-10.000	BREF	936.6800	IN.
△	10.000									XMRP	1076.6800	IN.X0
▽	15.000									YMRP	.0000	IN.Y0
◊	20.000									ZMRP	375.0000	IN.Z0
○	25.000									SCALE	.0150	

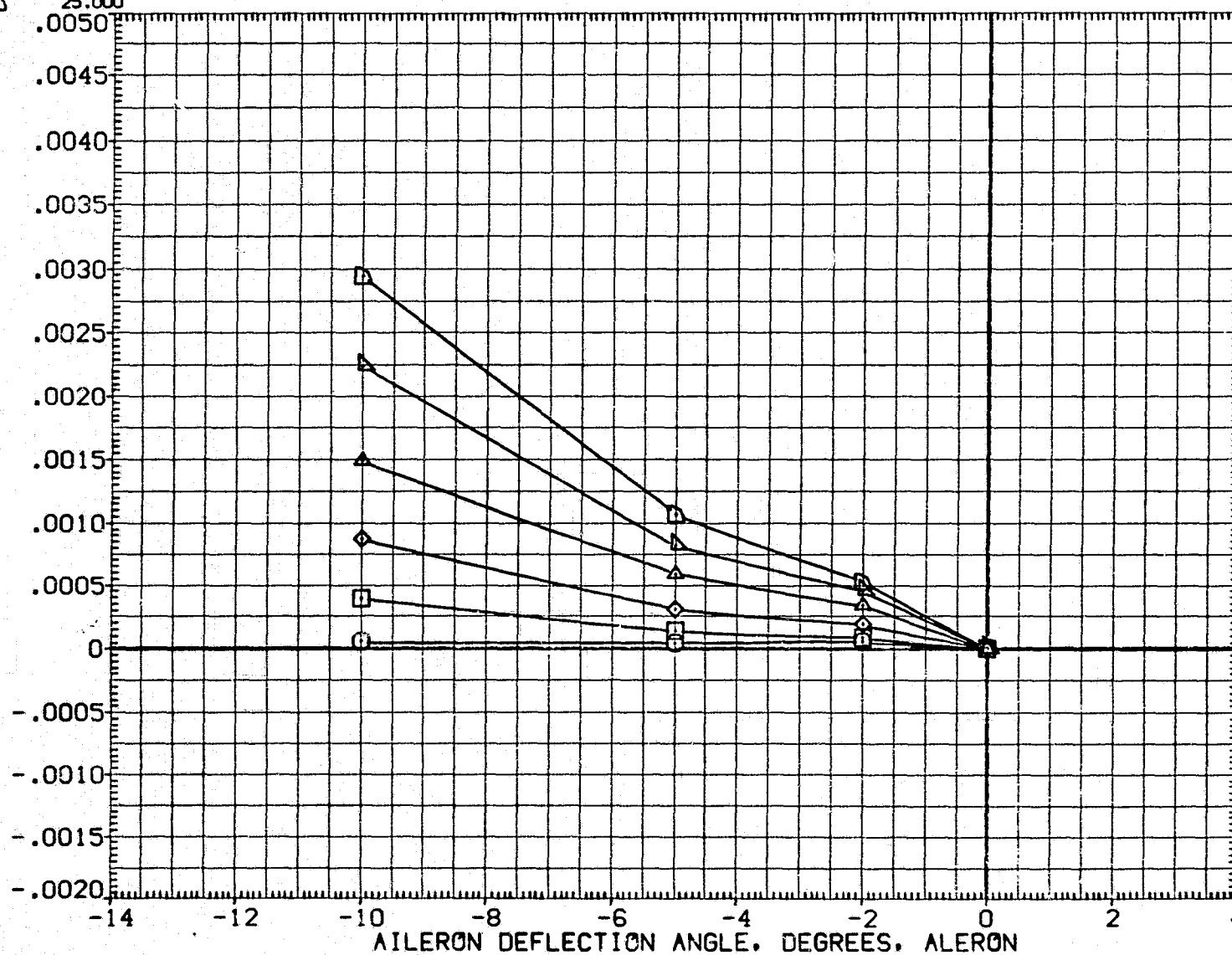
INCREMENTAL YAWING MOMENT COEFFICIENT, ΔC_{Y0} 

FIG. 19 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	ALERON	DATASET	ALERON	SREF	2690.0000	SQ.FT.
□	5.000	ELV-08	.000	SPDBRK	85.000	0TV006	.000	0TV016	-2.000	LREF	474.8100	IN.
◇	10.000					0TV017	-5.000	0TV018	-10.000	BREF	936.6800	IN.
△	15.000									XMRP	1076.6800	IN.X0
▽	20.000									YMRP	.0000	IN.Y0
◻	25.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL ROLLING MOMENT COEFFICIENT, DLTCBL

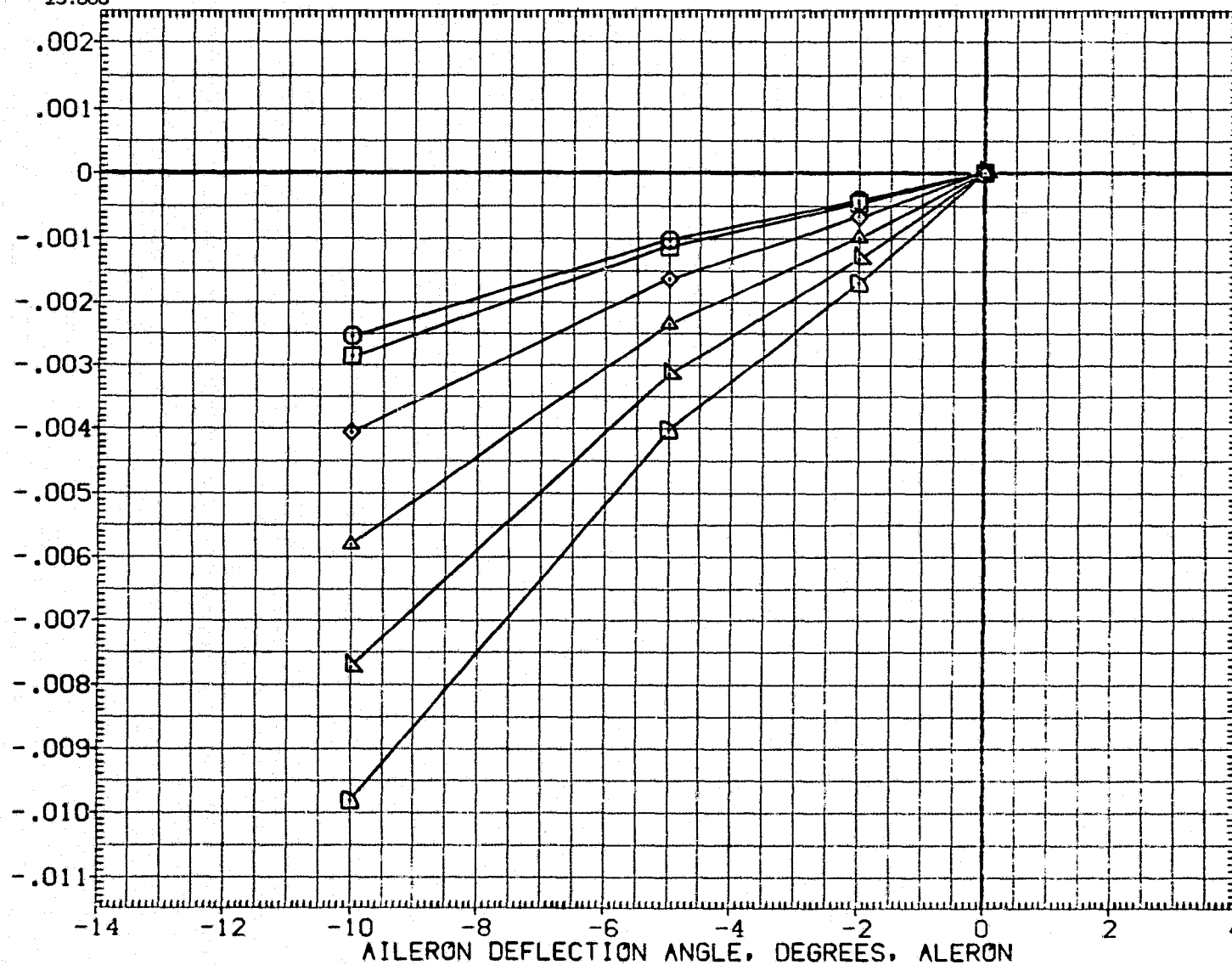


FIG. 19 INCREMENTAL EFFECTS OF FULL SPAN AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ZTV016)

SYMBOL

ALPHA

PARAMETRIC VALUES

REFERENCE INFORMATION

○
 □
 ◇
 △
 ▽
 ▽
 ▽

.000
 5.000
 10.000
 15.000
 20.000
 25.000

DELVLO
 DELVR0
 BETA
 SPDBRK

-2.000
 2.000
 .000
 85.000

DELVLI
 DELVRI
 ELV-OB
 ALERON

-2.000
 2.000
 .000
 -2.000

SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1076.6800 IN.X0
 YMRP .0000 IN.Y0
 ZMRP 375.0000 IN.Z0
 SCALE .0150

INCR. YAWING MOMENT COEFF. VAR. WITHAILERON DEFLECTION, DEG., DCYNDA

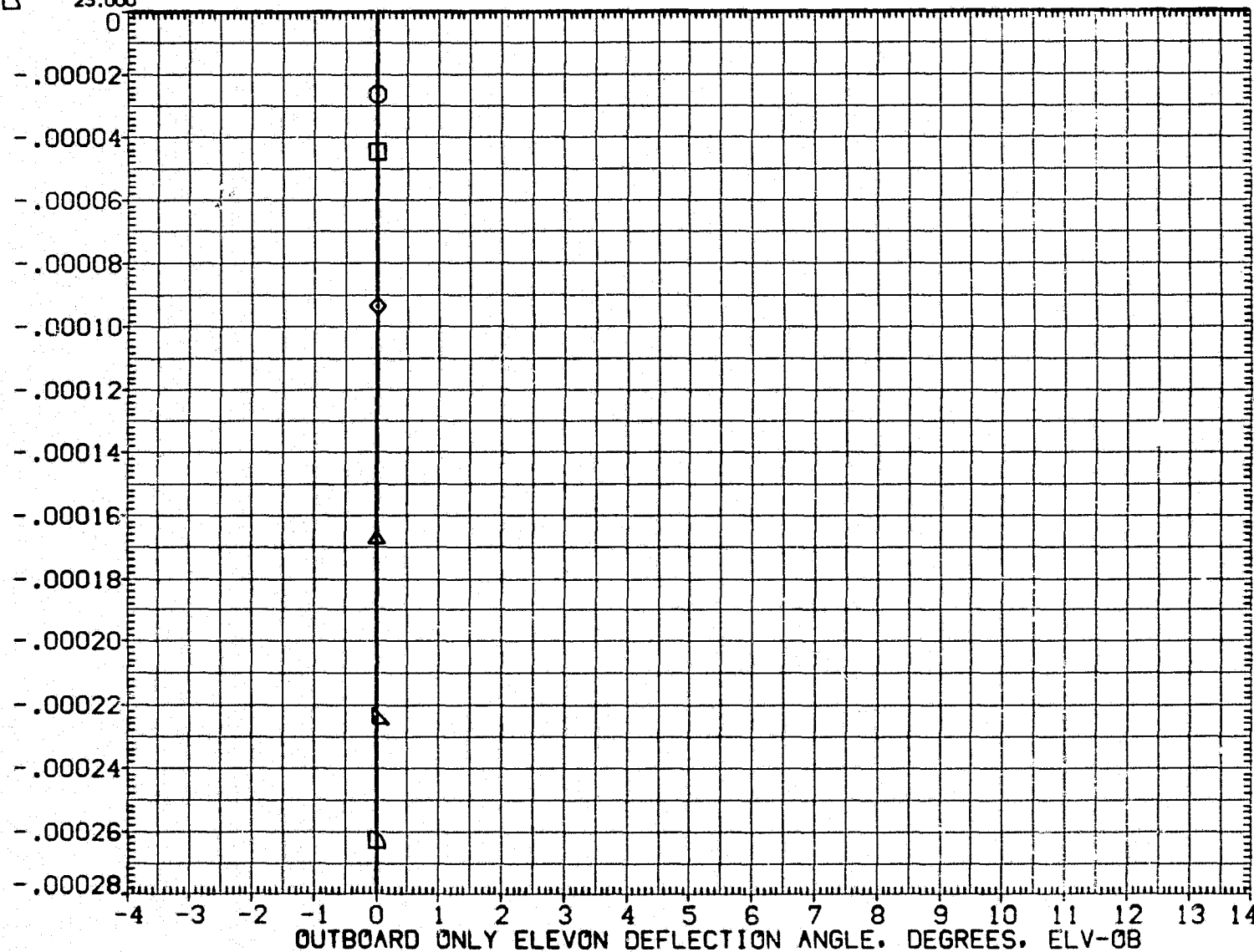


FIG. 20 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ZTV016)

SYMBOL

ALPHA

PARAMETRIC VALUES

REFERENCE INFORMATION

○
 □
 ◇
 ▲
 ▽
 ▢

.000
 5.000
 10.000
 15.000
 20.000
 25.000

DELVL0
 DELVR0
 BETA
 SPDBRK

-2.000
 2.000
 .000
 85.000

DELVLI
 DELVRI
 ELV-08
 ALERON

-2.000
 2.000
 .000
 -2.000

SREF
 LREF
 BREF
 XMRP
 YMRP
 ZMRP
 SCALE

2690.0000
 474.8100
 936.6800
 1076.6800
 .0000
 375.0000
 .0150

SQ.FT.
 IN.
 IN.
 IN.X0
 IN.Y0
 IN.Z0

INCR. ROLLING MOMENT COEFF. VAR. WITH AILERON DEFLECTION, DEG., DCBLDA

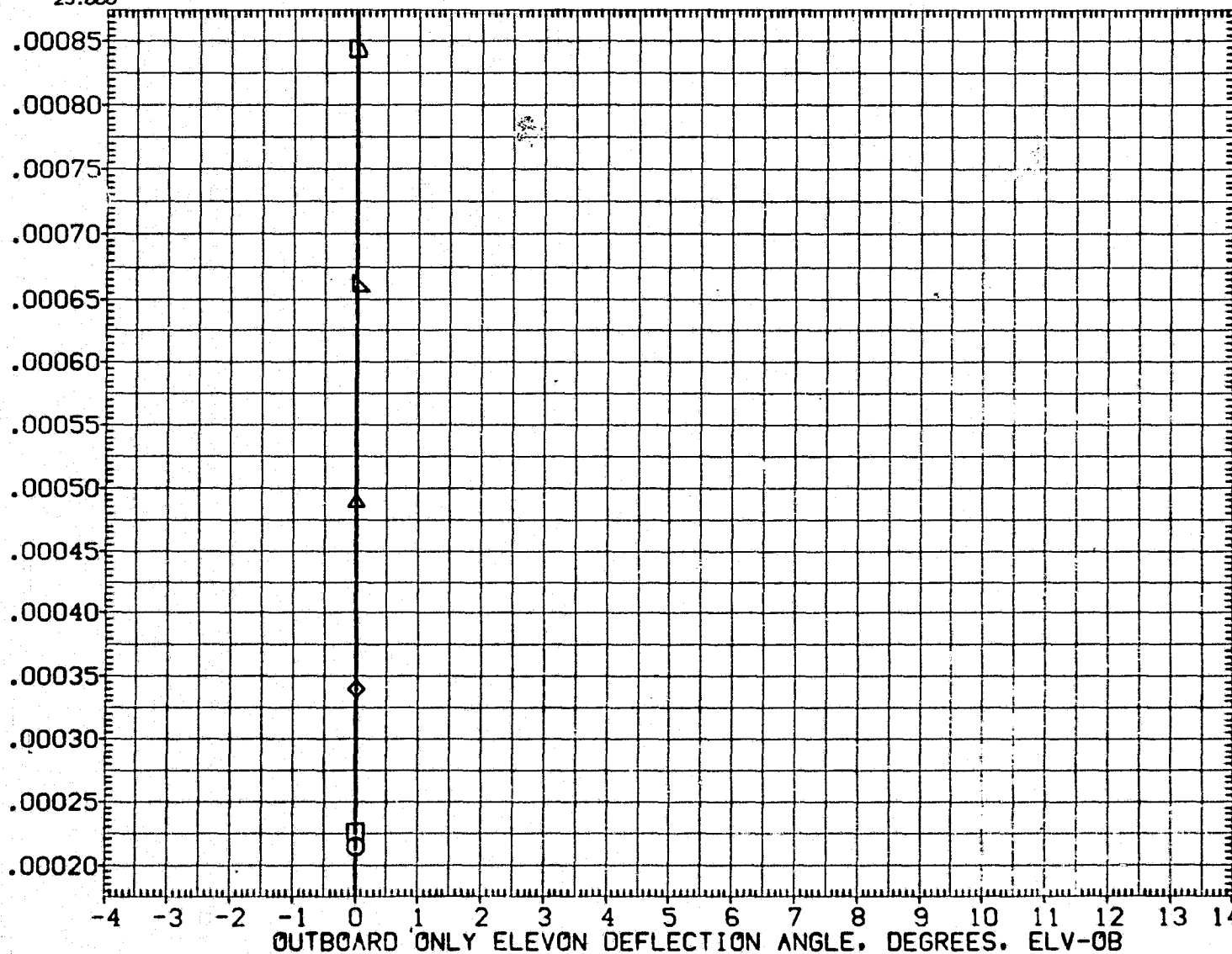


FIG. 20 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ZTV017)

SYMBOL	ALPHA	PARAMETRIC VALUES
○	.000	DELVL0 -5.000 DELVL1 -5.000
□	5.000	DELVR0 5.000 DELVR1 5.000
◇	10.000	BETA .000 ELV-08 .000
△	15.000	SPDBRK 85.000 ALERON -5.000
▽	20.000	
▽	25.000	

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6900	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

-INCR. YAWING MOMENT COEFF. VAR. WITH AILERON DEFLECTION, DEG., DCYNDA

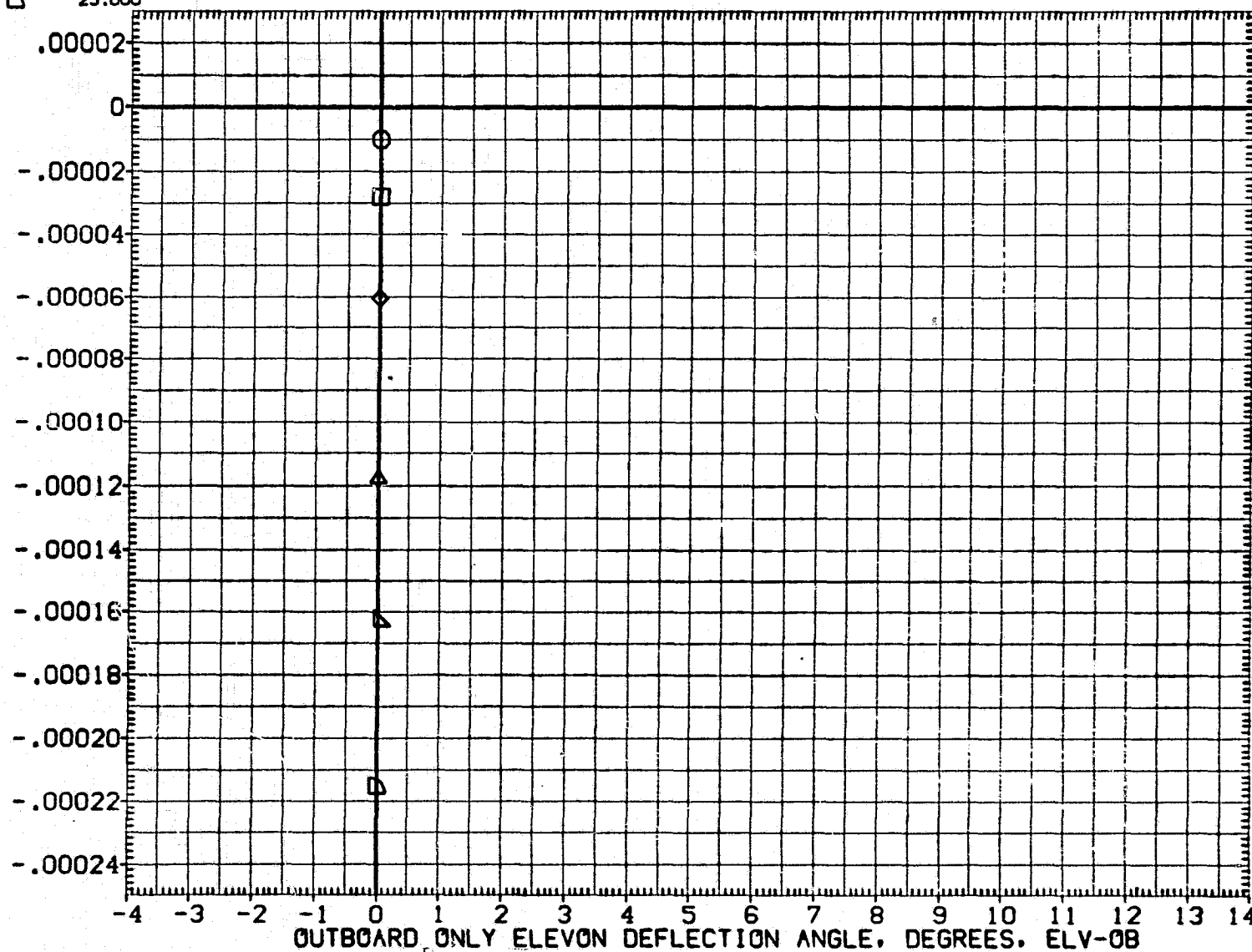


FIG. 20 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ZTV017)

SYMBOL	ALPHA	PARAMETRIC VALUES
○	.000	DELVL0 -5.000 DELVL1 -5.000
□	5.000	DELVR0 5.000 DELVR1 5.000
◇	10.000	BETA .000 ELV-OB .000
△	15.000	SPDBRK 85.000 ALERON -5.000
▽	20.000	
▽	25.000	

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

INCR. ROLLING MOMENT COEFF. VAR. WITH AILERON DEFLECTION, DEG., DCBLDA

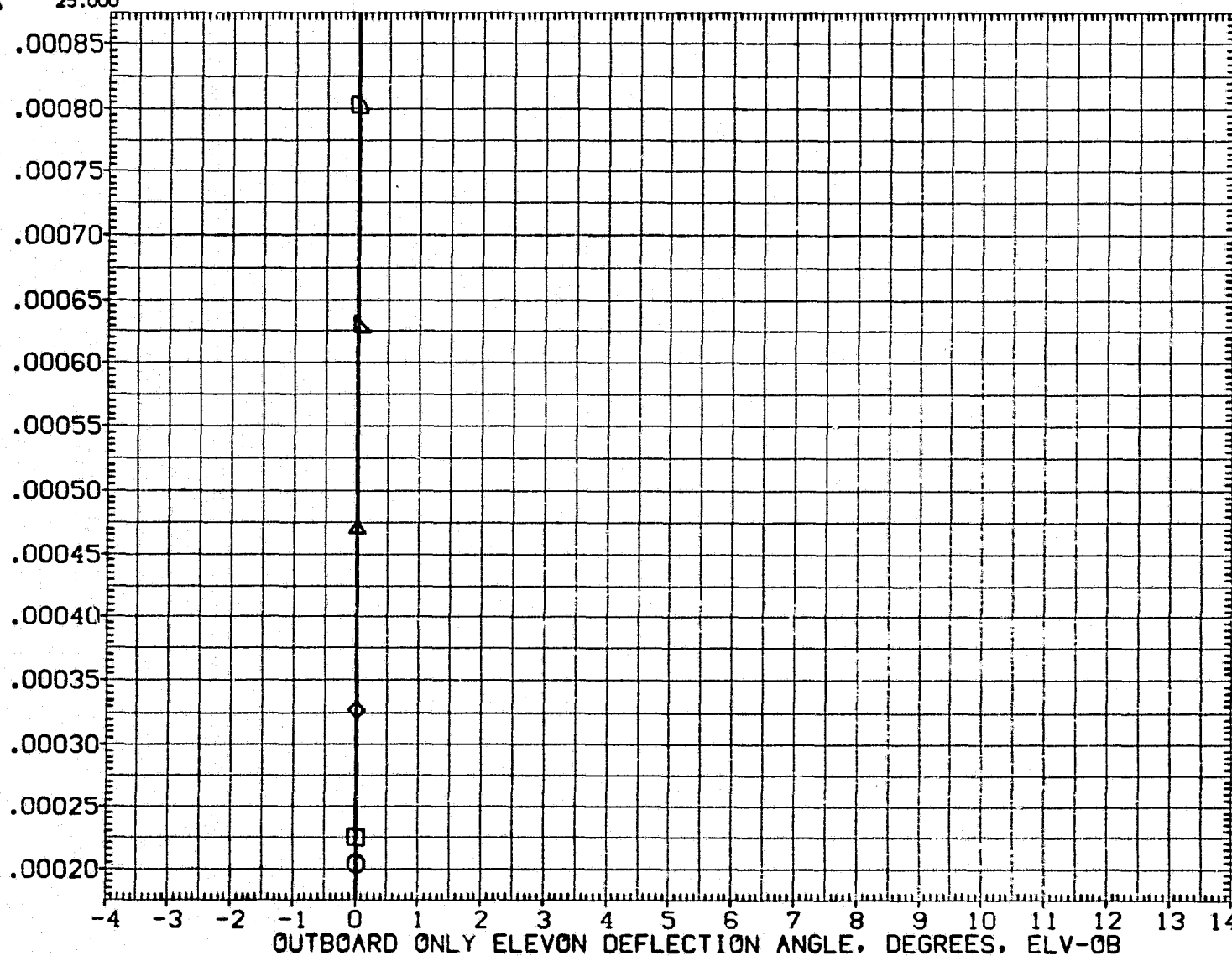


FIG. 20 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ZTV018)

SYMBOL	ALPHA	PARAMETRIC VALUES
○	.000	DELVL0 -10.000 DELVLI -10.000
□	5.000	DELVR0 10.000 DELVRI 10.000
◇	10.000	BETA .000 ELV-08 .000
△	15.000	SPDBRK 85.000 ALERON -10.000
▽	20.000	
◇	25.000	

REFERENCE INFORMATION		
SREF	2690.0000	30 FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

YACR. YAWING MOMENT COEFF. VAR. WITH AILERON DEFLECTION.DEG.. DCYNDA

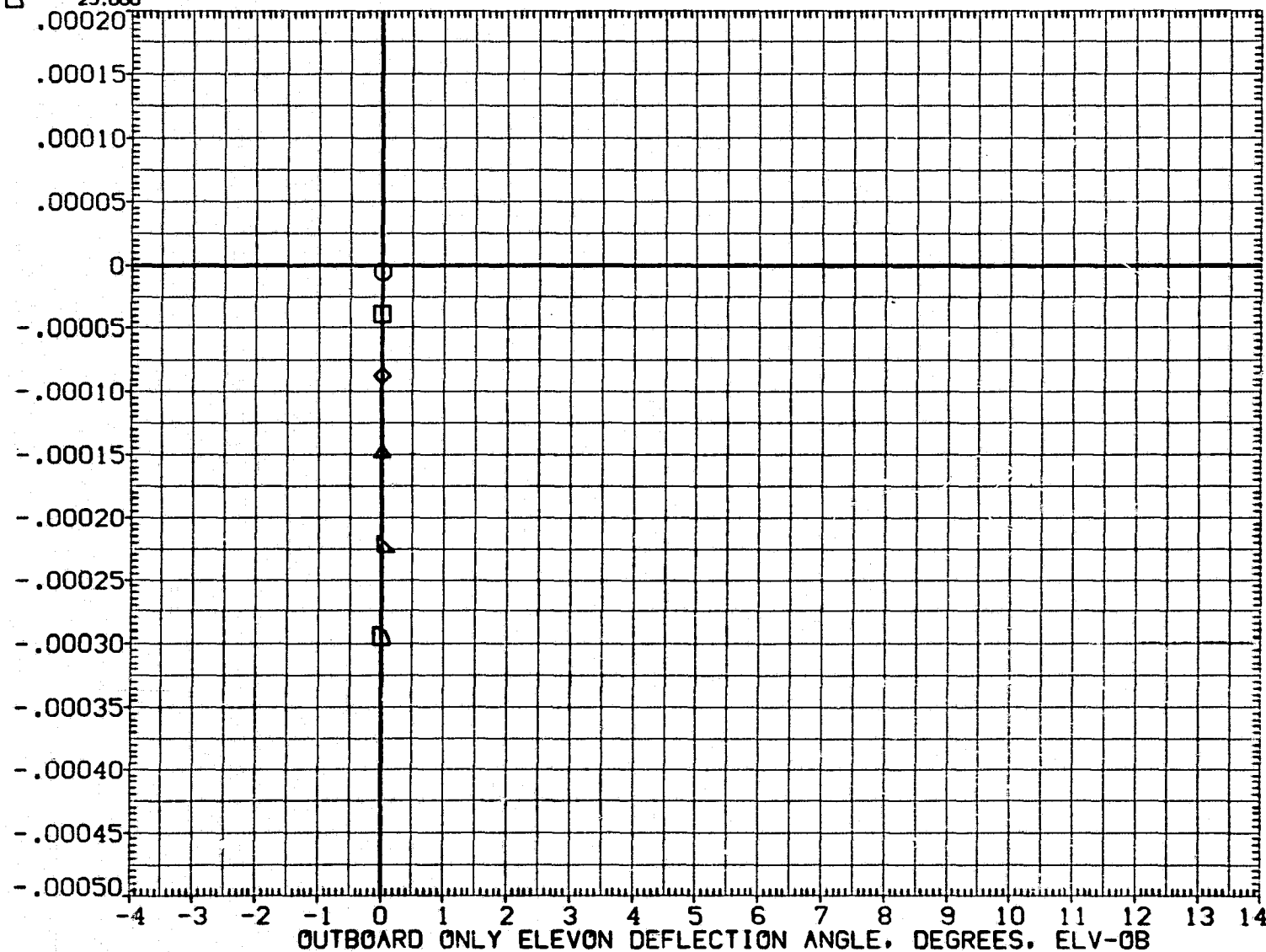


FIG. 20 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(ZTV018)

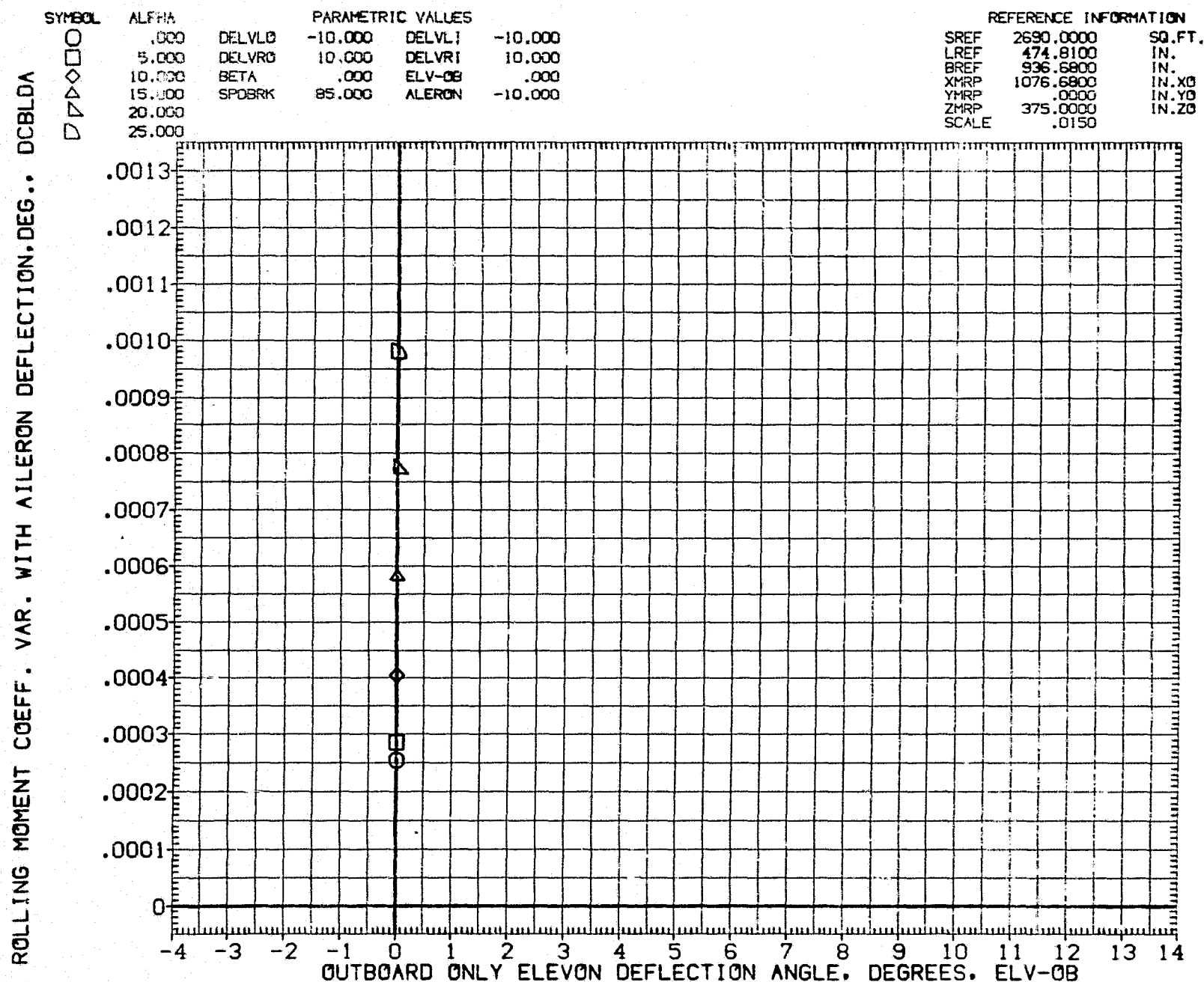


FIG. 20 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV022)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION		
◇	.000	MACH	5.000	DELVL	.000	DATASET	ALRNOB	SREF	2690.0000	50.FT.
◇	5.000	DELVR	.000	BETA	.000	0TV022	10.000	LREF	474.9100	IN.
◇	10.000	ELV-09	.000	SPDBRK	85.000			BREF	936.6800	IN.
◇	15.000							XMRF	1076.6800	IN.X0
◇	20.000							YMRP	.0000	IN.Y0
◇	25.000							ZMRP	375.0000	IN.Z0
								SCALE	.0:50	

INCREMENTAL YAWING MOMENT COEFFICIENT, DLTCYN

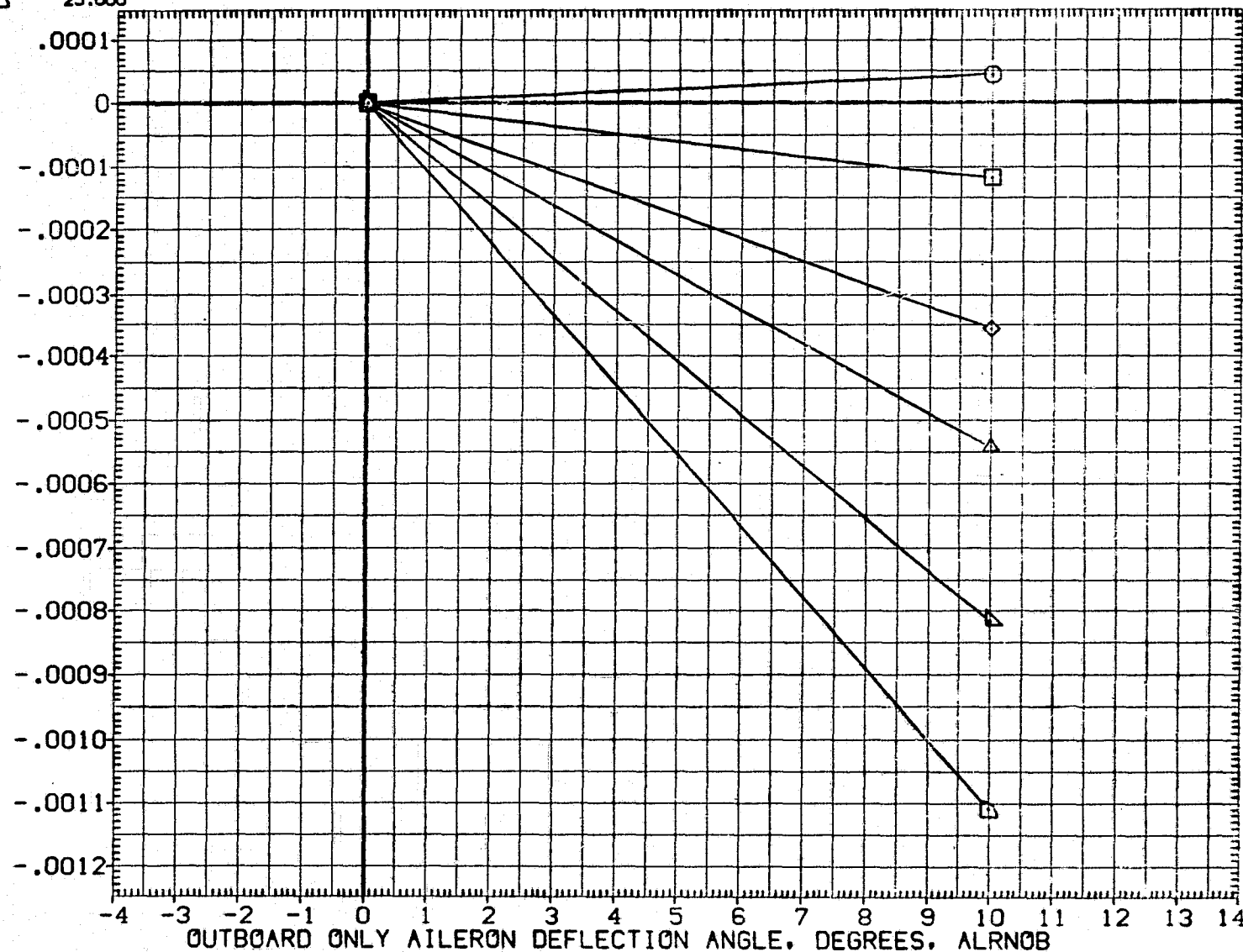


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV022)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
□	.000	5.000	DELVL I	.000 DATASET	SREF 2690.0000 SQ.FT.
◇	5.000	.000	BETA	.000 0TV022	LREF 474.8100 IN.
△	10.000	.000	SPOBRK	10.000 0TV0A6	BREF 936.6800 IN.
▽	15.000				XMRF 1076.6800 IN.X0
▽	20.000				YMRF .0000 IN.Y0
○	25.000				ZMRF 375.0000 IN.Z0
					SCALE .0150

INCREMENTAL ROLLING MOMENT COEFFICIENT, DLTCBL

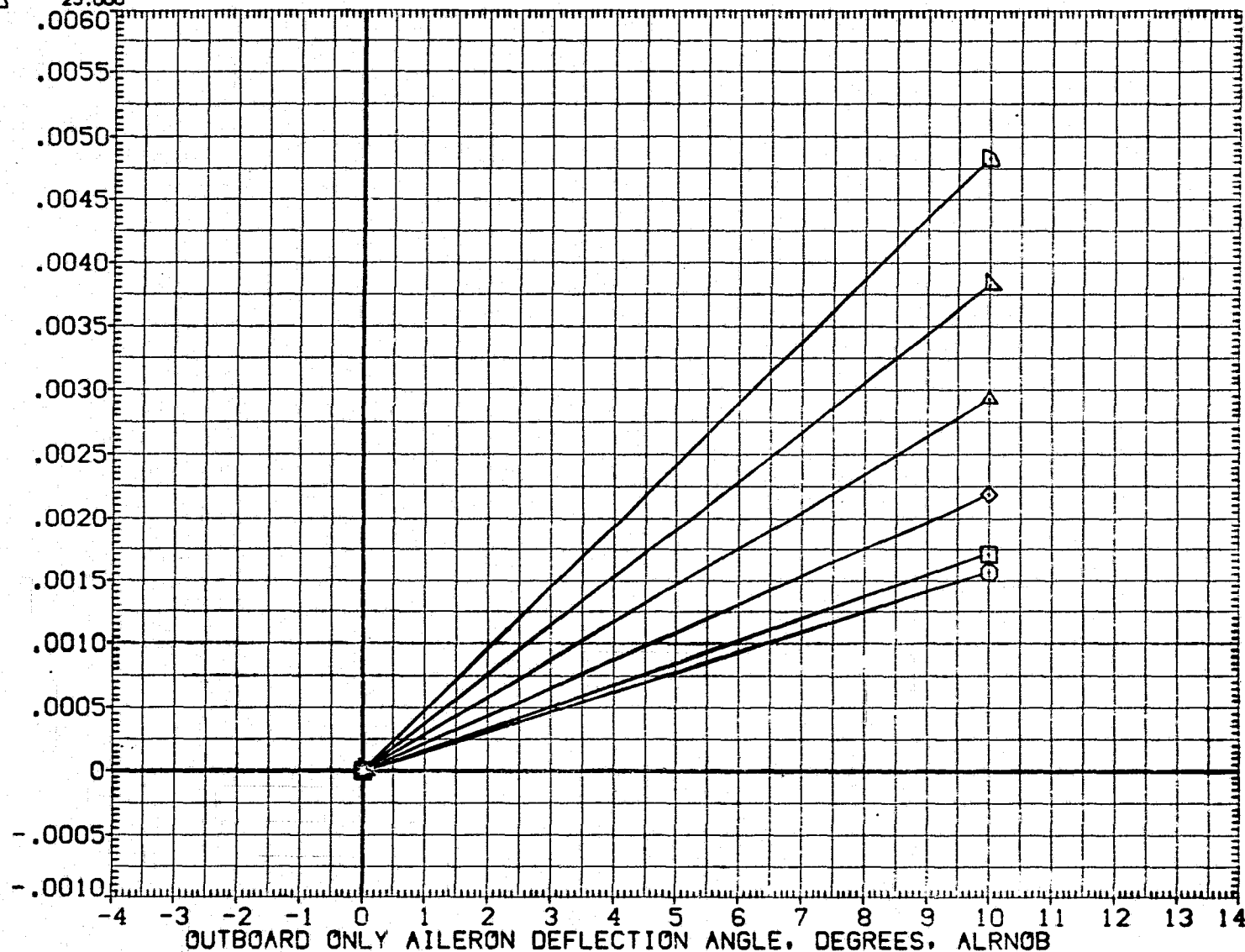


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV028)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DELVL1	-40.000	DATASET	ALRNOB	DATASET	ALRNOB	SREF	2690.0000	SQ.FT.
□	5.000	DELVR1	-40.000	BETA	.000	0TV028	.000	0TV031	10.000	LREF	474.8100	IN.
◇	10.000	ELV-08	-10.000	SPDRK	85.000					BREF	936.6800	IN.
△	15.000									XMRP	1076.6800	IN.X0
▽	20.000									YMRP	.0000	IN.Y0
◊	25.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCREMENTAL YAWING MOMENT COEFFICIENT, DLTCYN

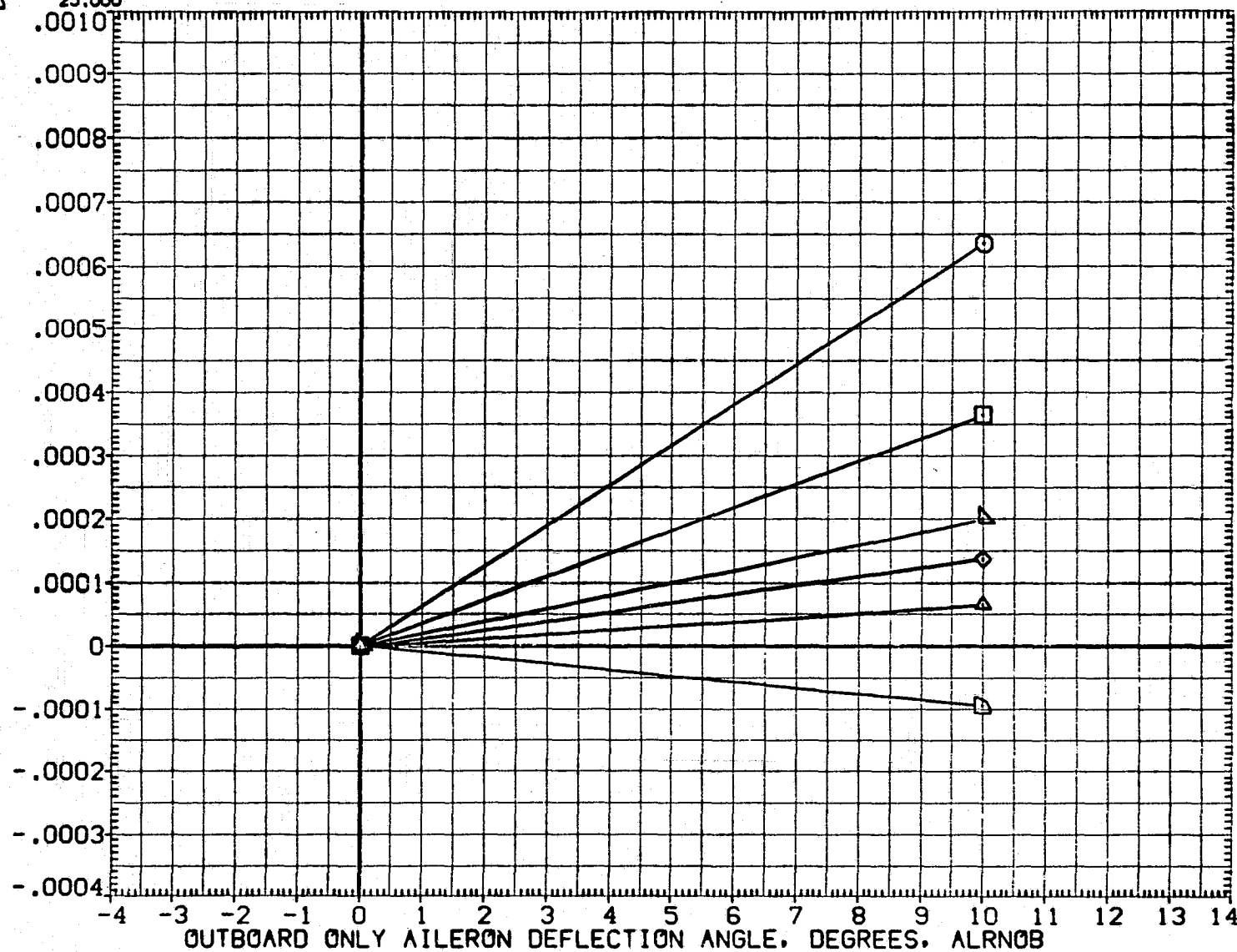


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV028)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DELVL1	-40.000	DATASET	ALRNOB	DATASET	ALRNOB	SREF	2690.0000	SO.FT.
○	.000									LREF	474.8100	IN.
□	5.000	DELVR1	-40.000	BETA	.000	0TV028	.000	0TV031	10.000	BREF	936.6800	IN.
◇	10.000	ELV-08	-10.000	SPDBRK	85.000					XMRP	1076.6800	IN.X0
△	15.000									YMRP	.0000	IN.Y0
▽	20.000									ZMRP	375.0000	IN.Z0
◻	25.000									SCALE	.0150	

INCREMENTAL ROLLING MOMENT COEFFICIENT, DLTCBL

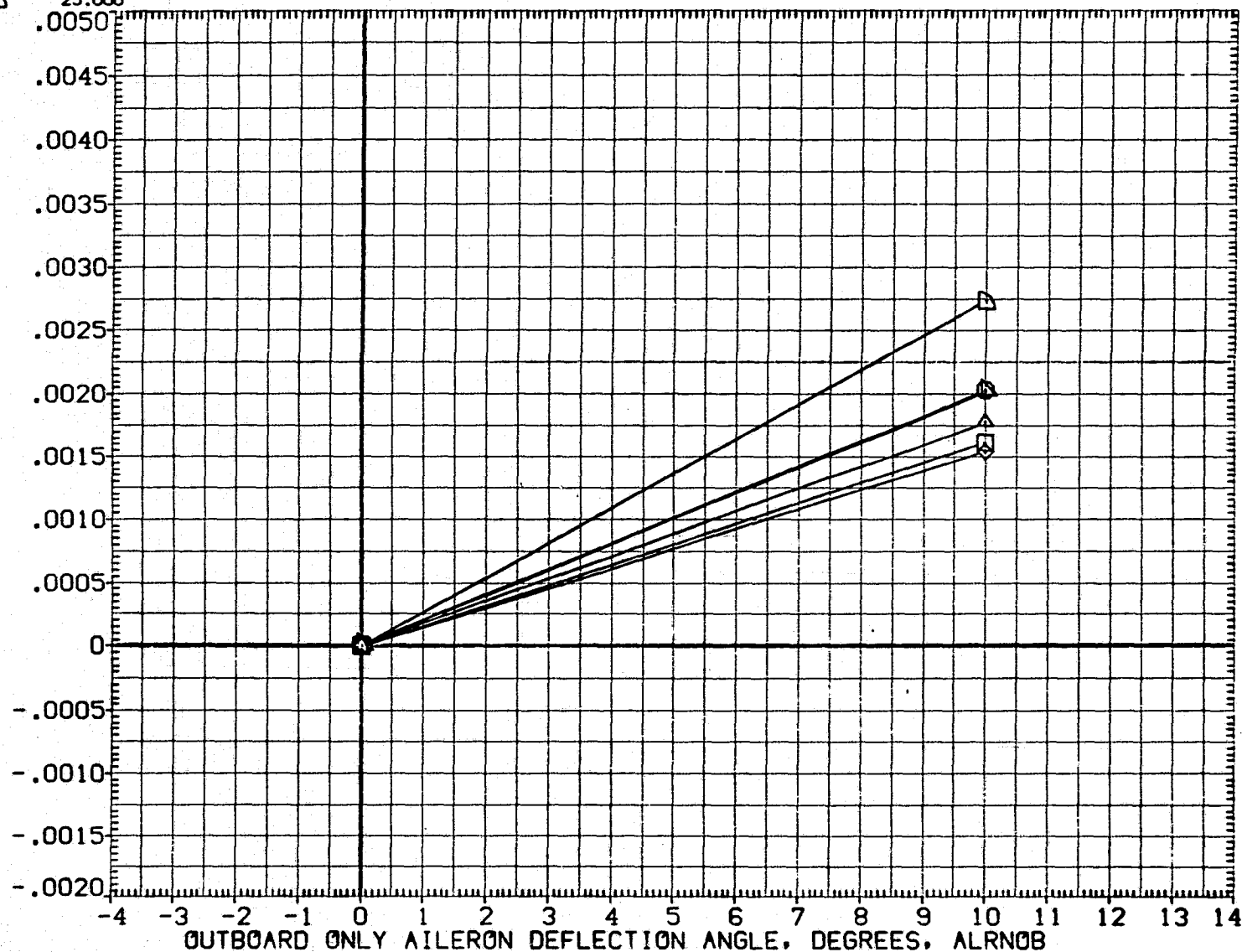


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DEL VLI	-40.000	DATASET	ALRNOB	DATASET	ALRNOB	SREF	2690.0000	SO.FT.
○	.000	5.000	DELVR1	-40.000	BETA	.000	0TV029	.000	0TV030	LREF	474.8100	IN.
□	5.000	10.000	SPDRK	85.000						BREF	936.6800	IN.
◇	10.000									XMRP	1076.6800	IN.X0
△	15.000									YMRP	.0000	IN.Y0
▽	20.000									ZMRP	375.0000	IN.Z0
◻	25.000									SCALE	.0150	

INCREMENTAL YAWING MOMENT COEFFICIENT, DLTCYN

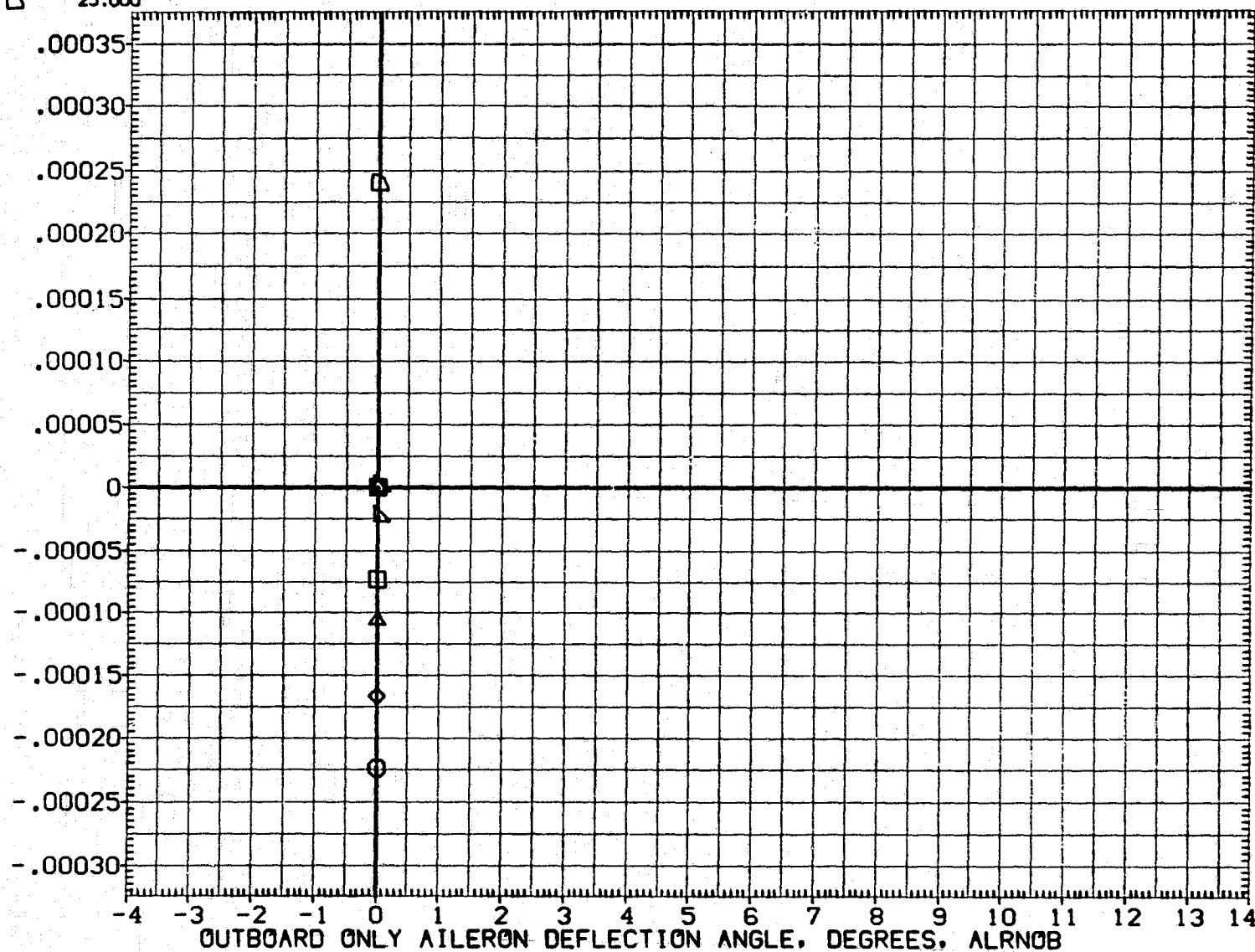


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DELVL I	BETA	DATA SOURCE	ALRNOB	DATASET	ALRNOB	SREF	2690.0000	SQ.FT.
○	.000	5.000	DELVR I	-40.000	.000	0TV029	.000	0TV030	.000	LREF	474.8100	IN.
□	5.000	SPDBRK	85.000							BREF	936.6800	IN.
◇	10.000									XMRP	1076.6800	IN.X0
△	15.000									YMRP	.0000	IN.Y0
▽	20.000									ZMRP	375.0000	IN.Z0
◇	25.000									SCALE	.0150	

INCREMENTAL ROLLING MOMENT COEFFICIENT, DLTCBL

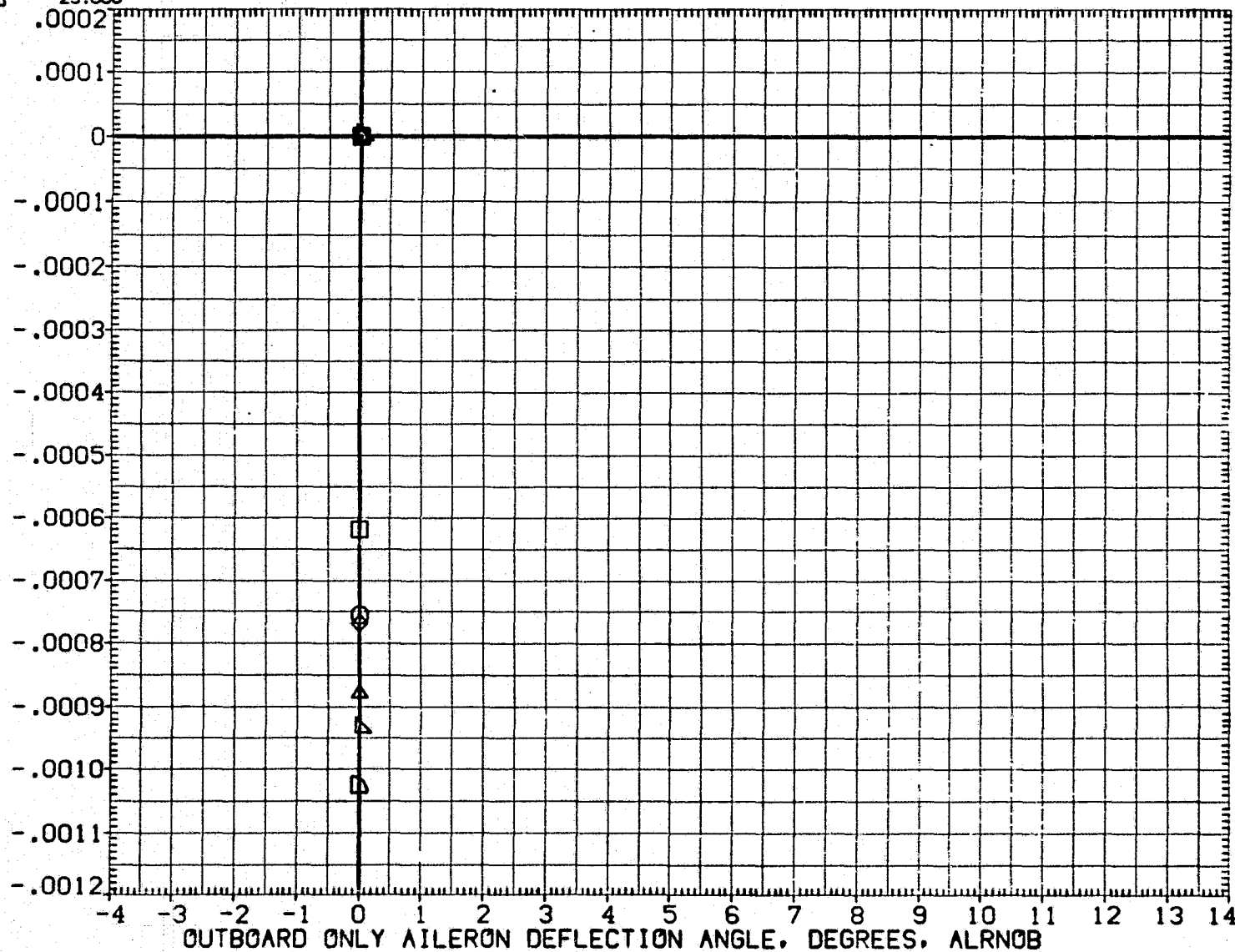


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV033)

SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	.000	MACH	5.000	DELVL1	.000	DATASET	ALRNOB	DATASET	ALRNOB	SREF	2690.0000	SQ.FT.	
□	5.000	DELVR1	.000	BETA	.000	0TV033	10.000	0TV024	.000	LREF	474.8100	IN.	
◇	10.000	ELV-08	-10.000	SPDBRK	85.000					BREF	936.6800	IN.	
△	15.000									XMRP	1076.6800	IN.X0	
▽	20.000									YMRP	.0000	IN.Y0	
◐	25.000									ZMRP	375.0000	IN.Z0	
◑										SCALE	.0150		

INCREMENTAL YAWING MOMENT COEFFICIENT, DLTCYN

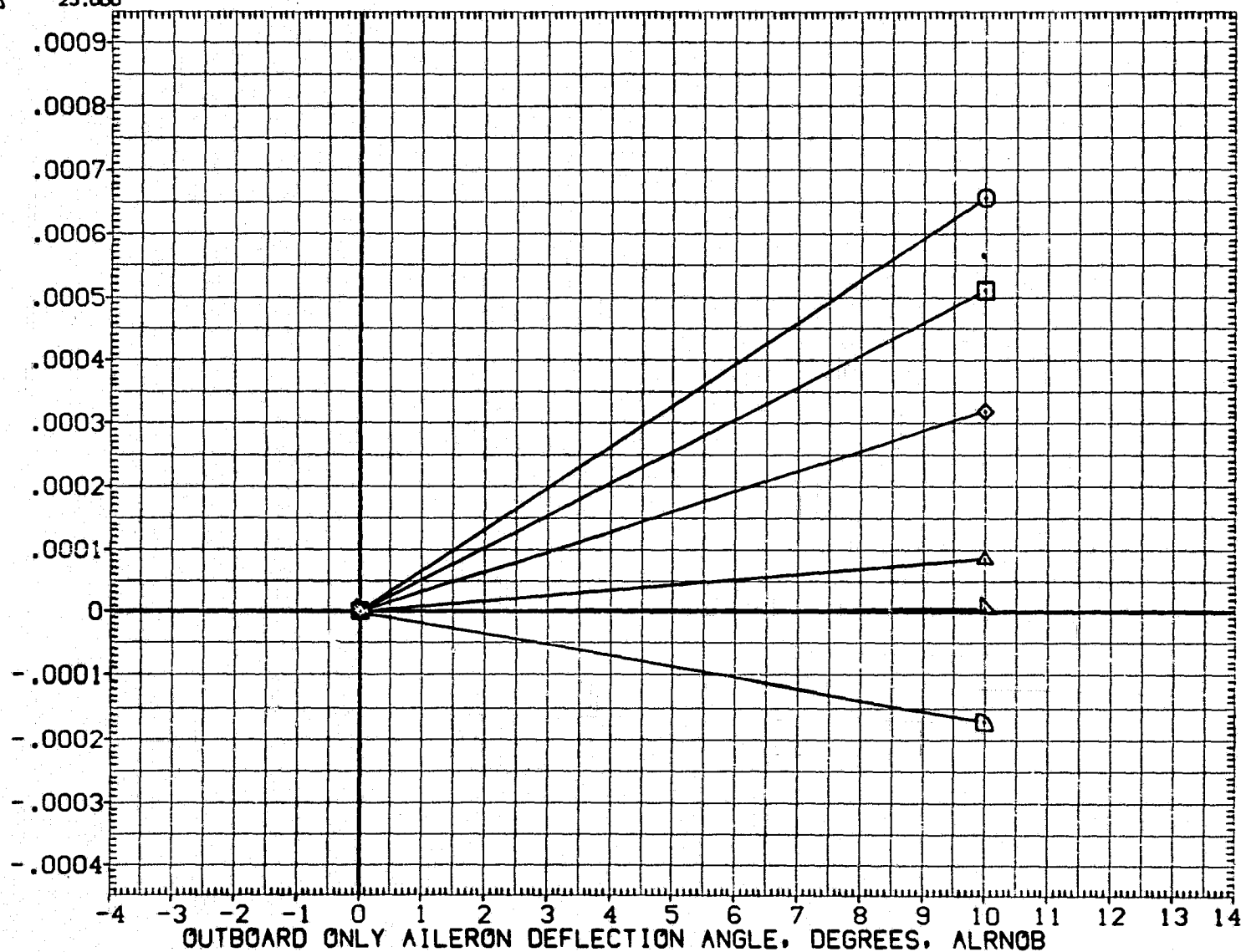


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV033)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DELVL1	.000	DATASET	ALRN08	DATASET	ALRN08	SREF	REFERENCE INFORMATION
□	.000	5.000	DELVR1	.000	BETA	.000	0TV033	10.000	.000	2690.0000	50.FT.
◇	5.000	DELVR1	.000	BETA	.000	0TV033	10.000	.000	.000	474.8100	IN.
△	10.000	ELV-08	-10.000	SPDBRK	85.000					936.6800	IN.
▽	15.000									1076.6800	IN.X0
◇	20.000									.0000	IN.Y0
▽	25.000									375.0000	IN.Z0
										SCALE	.0150

INCREMENTAL ROLLING MOMENT COEFFICIENT, DLTCBL

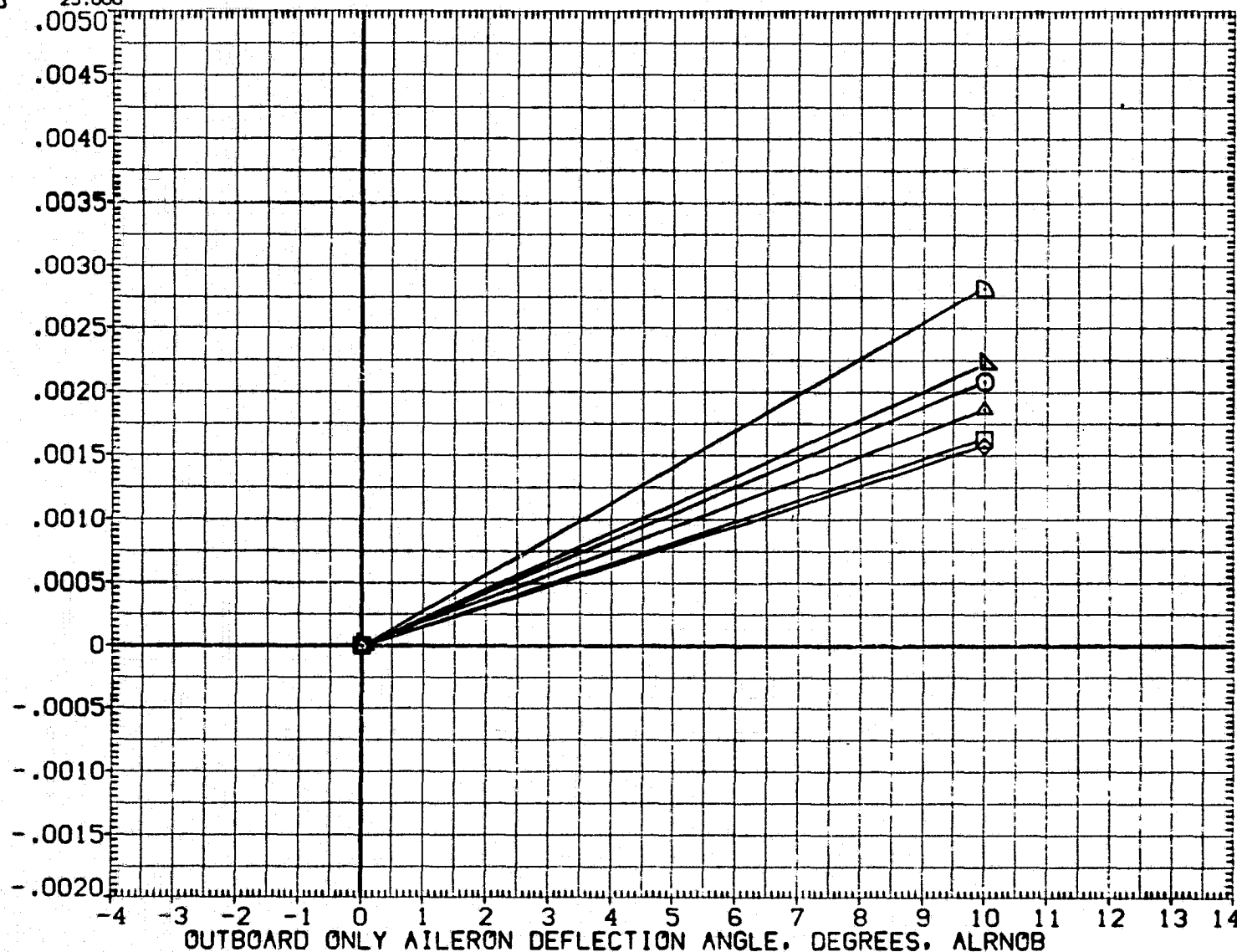


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV037)

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	.000	MACH 5.000 DELVLI -10.000 DATASET ALRNOB DATASET ALRNOB SREF 2690.0000 SQ.FT.		
□	5.000	DELVRI -10.000 BETA .000 0TV037 10.000 0TV039 .000 LREF 474.8100 IN.		
◇	10.000	ELV-08 .000 SPDGRK 85.000 XMRP 1076.6800 IN.X0		
△	15.000			YMRP .0000 IN.Y0
▽	20.000			ZMRP 375.0000 IN.Z0
◇	25.000			SCALE .0150

INCREMENTAL YAWING MOMENT COEFFICIENT, DLTCYN

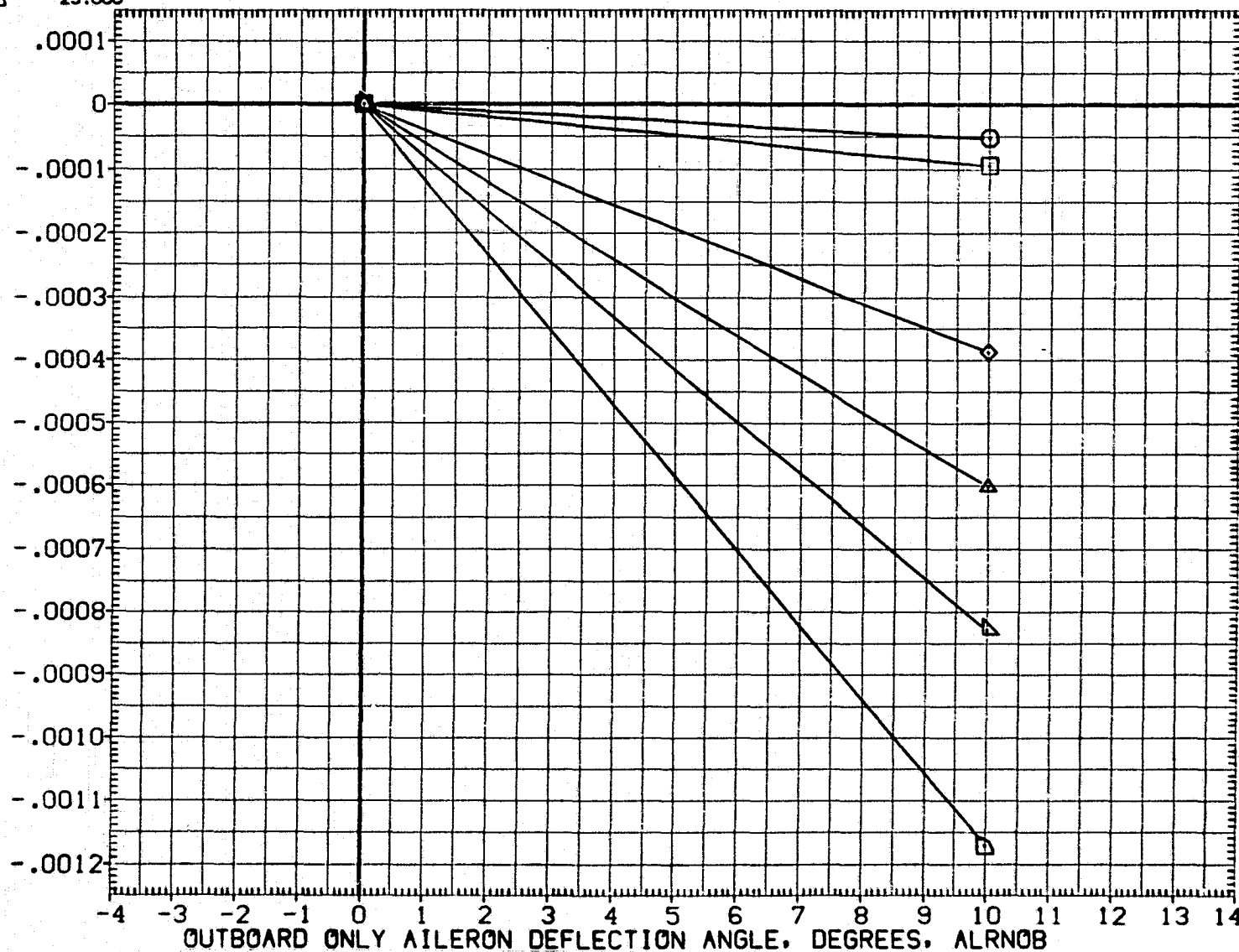


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV037)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DELVL I	-10.000	DATASET	ALRN08	DATASET	ALRN08	SREF	2690.0000	SQ.FT.
○	.000									LREF	474.8100	IN.
□	5.000	DELVR1	-10.000	BETA	.000	0TV037	10.000	0TV039	.000	BREF	936.6800	IN.
◇	10.000	ELV-08	.000	SPDBRK	85.000					XMRP	1076.6800	IN.X0
△	15.000									YMRP	.0000	IN.Y0
▽	20.000									ZMRP	375.0000	IN.Z0
▽	25.000									SCALE	.0150	

INCREMENTAL ROLLING MOMENT COEFFICIENT, DLTCBL

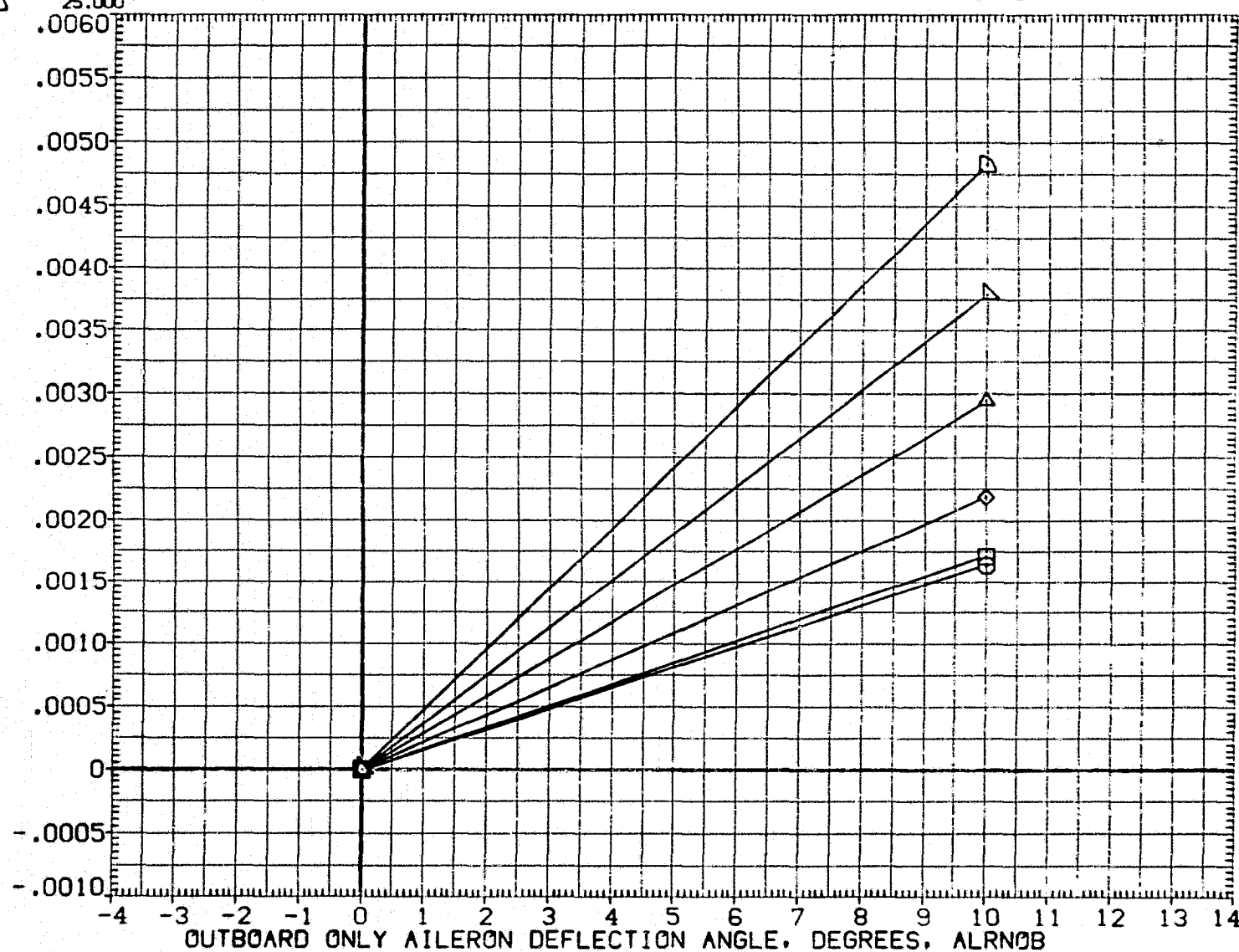


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV041)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DEL VLI	-20.000	DATASET	ALRNOB	DATASET	ALRNOB	SREF	2690.0000	SQ.FT.
○	.000		5.000							LREF	474.8100	IN.
□	5.000	DELVR1	-20.000	BETA	.000	0TV041	5.000	0TV026	.000	BREF	936.6800	IN.
◇	10.000	ELV-08	-5.000	SPDBRK	85.000					XMRP	1076.6800	IN.X0
△	15.000									YMRP	.0000	IN.Y0
▽	20.000									ZMRP	375.0000	IN.Z0
D	25.000									SCALE	.0150	

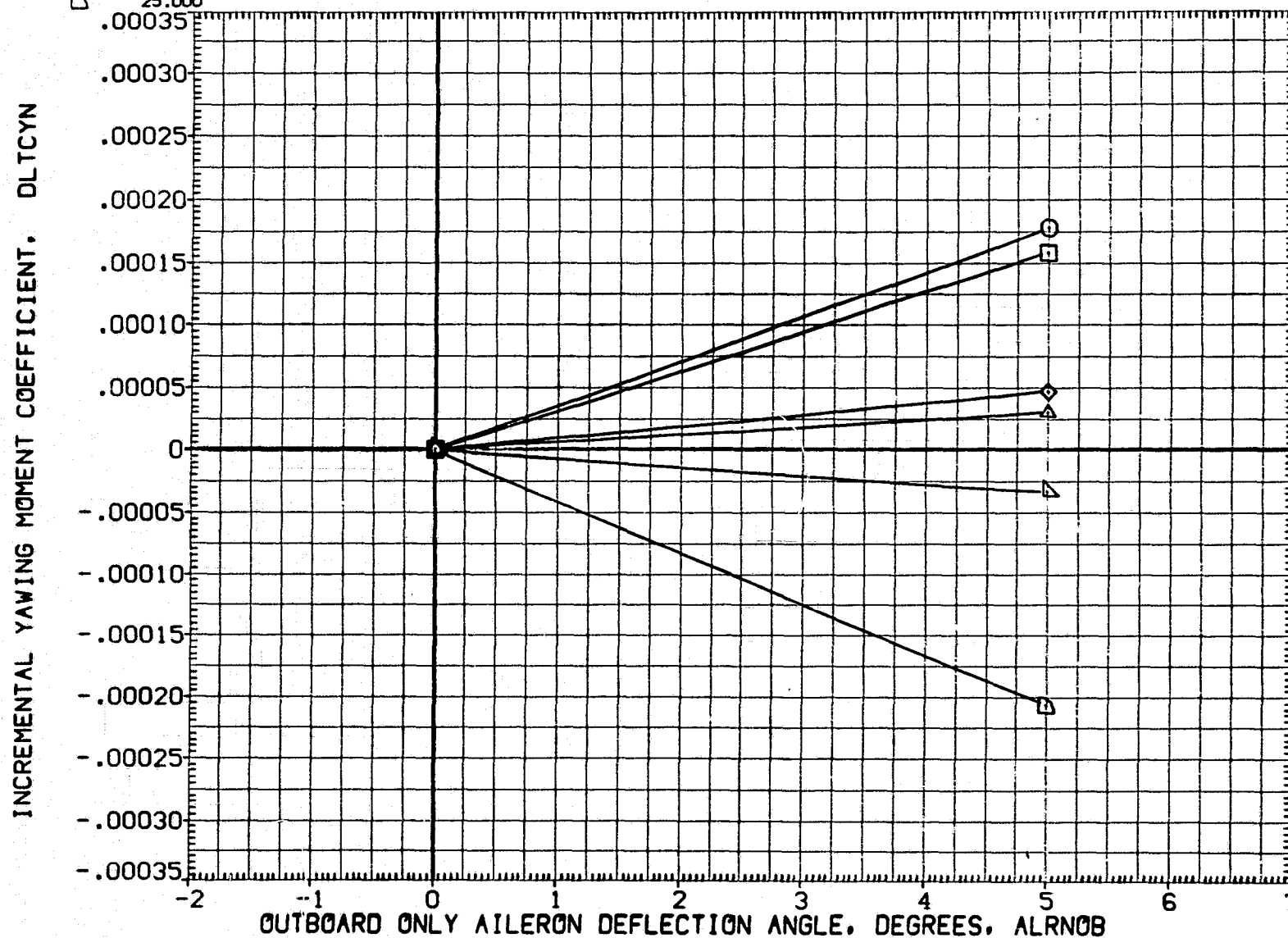


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

[0TV041]

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DELVL1	-20.000	DATASET	ALRNOB	DATASET	ALRNOB	SREF	2690.0000	SQ.FT.
○	.000									LREF	474.8100	IN.
□	5.000	DELVR1	-20.000	BETA	.000	0TV041	5.000	0TV026	.000	BREF	936.6800	IN.
◇	10.000	ELV-08	-5.000	SPOBRK	85.000					XMRP	1076.6800	IN.X0
△	15.000									YMRP	.0000	IN.Y0
▽	20.000									ZMRP	375.0000	IN.Z0
▷	25.000									SCALE	.0150	

INCREMENTAL ROLLING MOMENT COEFFICIENT, DLTCBL

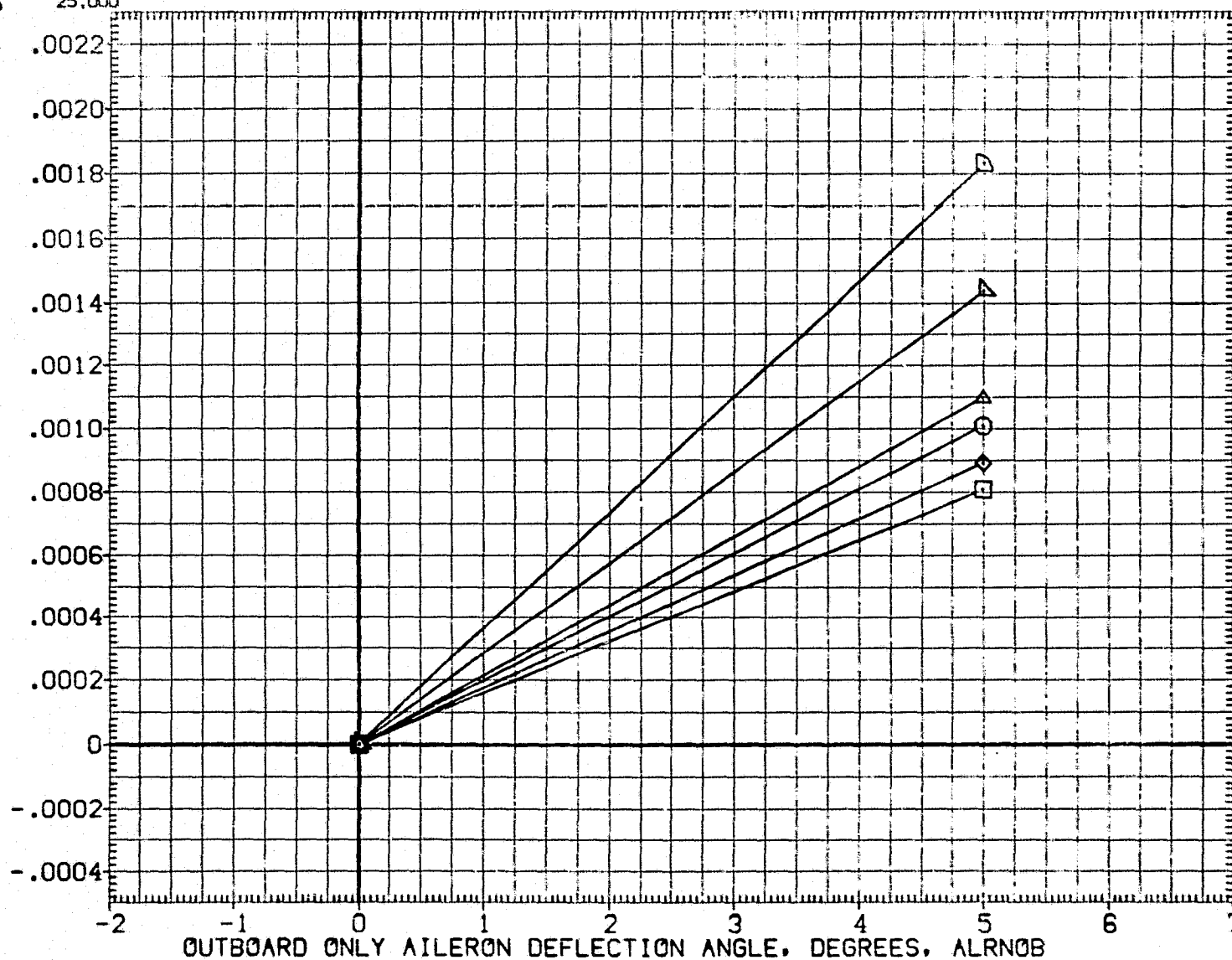


FIG. 21 INCREMENTAL EFFECTS OF OUTBOARD ONLY AILERON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV022)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
□	.000	5.000	DELVL1	.000 DATASET	SREF 2690.0000 SQ.FT.
◇	5.000	DELVRI	.000 BETA	.000 0TV022	LREF 474.8100 IN.
△	10.000	SPDBRK	85.000	0TV0A6	BREF 936.6800 IN.
▽	15.000				XMRP 1076.6800 IN.X0
◇	20.000				YMRP .0000 IN.Y0
□	25.000				ZMRP 375.0000 IN.Z0
					SCALE .0150

INCR. YAWING MOMENT COEFF. VAR. WITHAILERON DEFLECTION.DEG.. DCYNDA

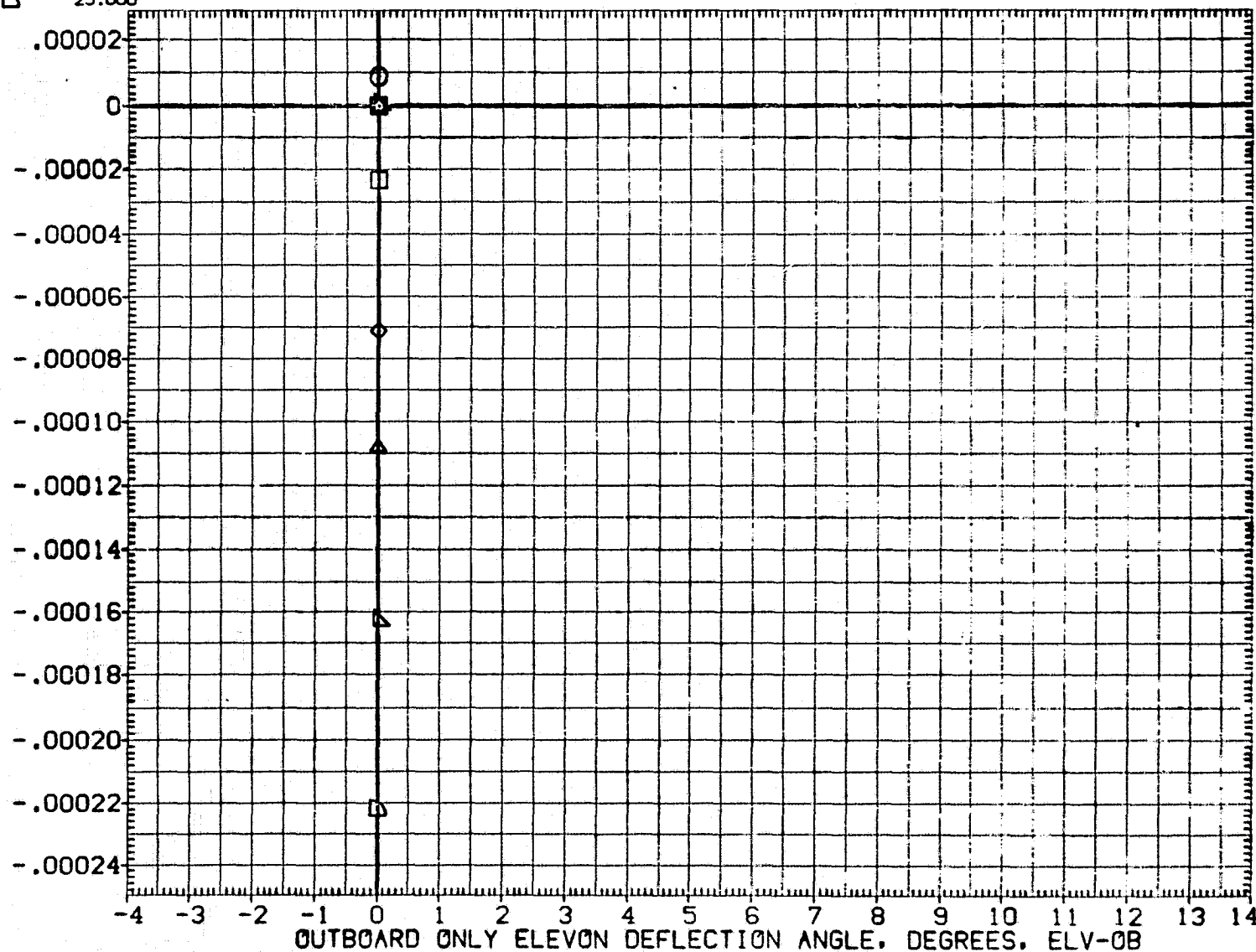


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV022)

SYMBOL

ALPHA

PARAMETRIC VALUES

DATA SOURCE

REFERENCE INFORMATION

.000

MACH

5.000

DELVTI

.000 DATASET

ELV-08

DATASET

ELV-08

SREF

2690.0000

50.FT.

5.000

DELVTI

.000

BETA

.000 0TV022

.000

0TV0A6

.000

LREF

474.8100

IN.

10.000

SPDRK

85.000

BREF

936.6800

IN.

15.000

XMRP

1076.6900

IN.X0

20.000

YMRP

.0000

IN.Y0

25.000

ZMRP

375.0000

IN.Z0

SCALE

.0150

INCR. ROLLING MOMENT COEFF. VAR. WITH AILERON DEFLECTION.DEG.. DCBLDA

D
 ▽
 ◇
 □
 ○

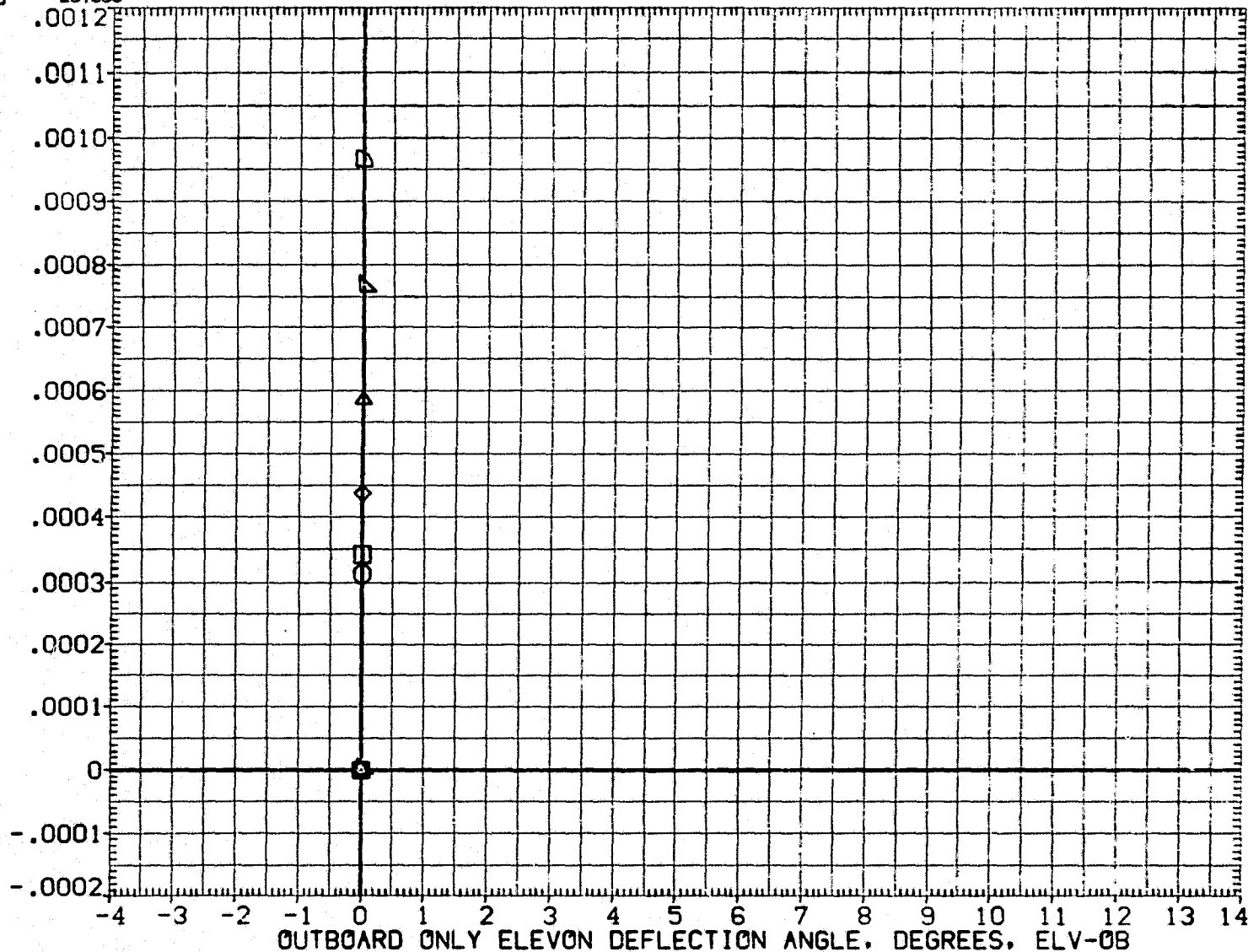


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV028)

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
□	.000	MACH 5.000	ELV-08	SREF 2690.0000
◇	5.000	DELVR1 -40.000	DATASET 0TV028	LREF 474.8100
△	10.000	SPDRK 85.000	DATASET 0TV031	BREF 936.6800
▽	15.000			XMRP 1076.6800
◇	20.000			YMRP .0000
□	25.000			ZMRP 375.0000
				SCALE .0150
				SO.FT. IN.
				IN.
				IN.X0
				IN.Y0
				IN.Z0

INCR. YAWING MOMENT COEFF. VAR. WITHAILERON DEFLECTION, DEG., DCYNDA

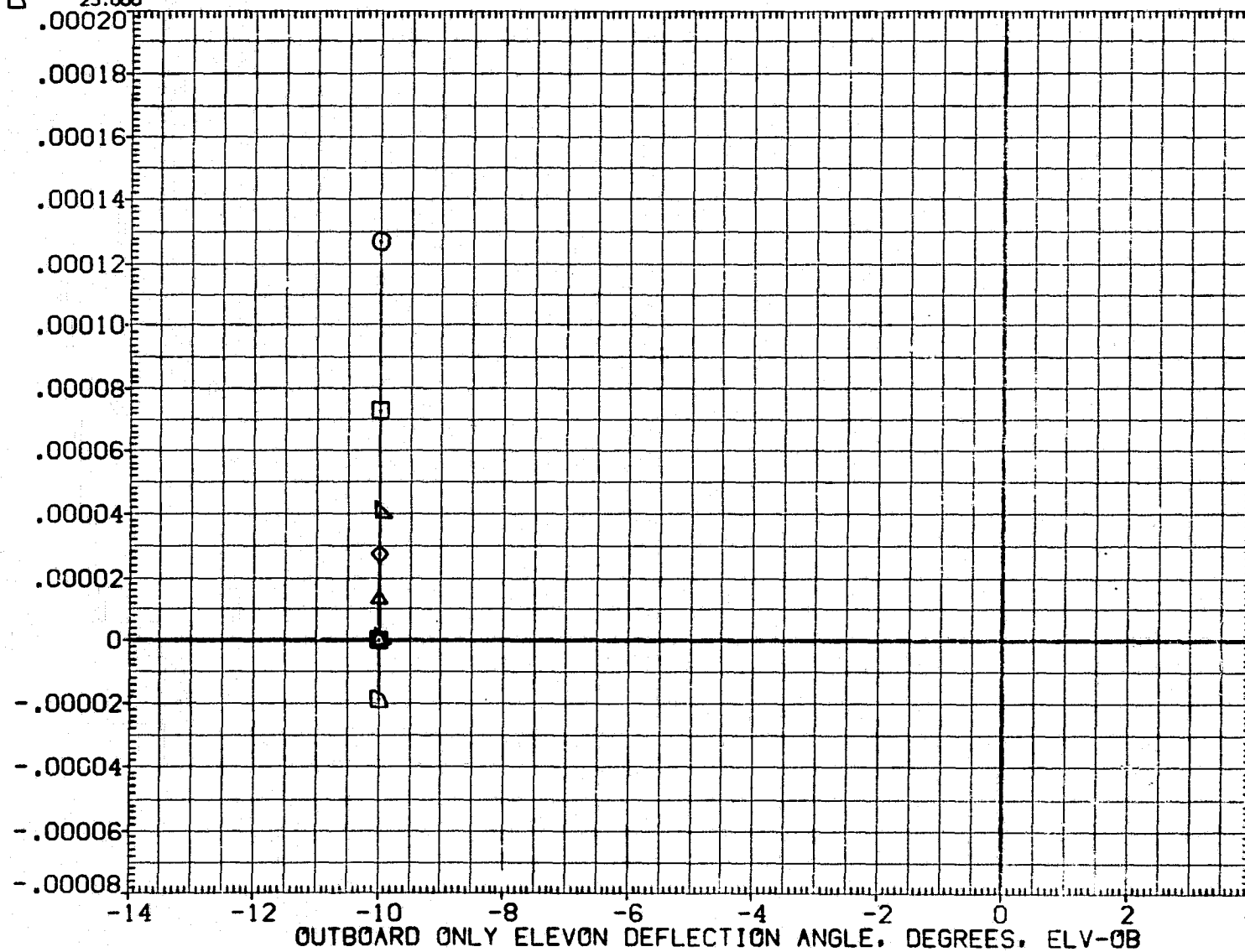


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV028)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DELVL1	-40.000	DATASET	ELV-08	DATASET	ELV-08	SREF	2690.0000	50.FT.
□	.000	DELVR1	-40.000	BETA	.000	0TV028	-10.000	0TV031	-10.000	LREF	474.8100	IN.
◇	5.000	SPDRK	85.000							BREF	936.6800	IN.
△	10.000									XMRP	1076.6800	IN.X0
▽	15.000									YMRP	.0000	IN.Y0
◻	20.000									ZMRP	375.0000	IN.Z0
◼	25.000									SCALE	.0150	

INCR. ROLLING MOMENT COEFF. VAR. WITH AILERON DEFLECTION, DEG., DCBLDA

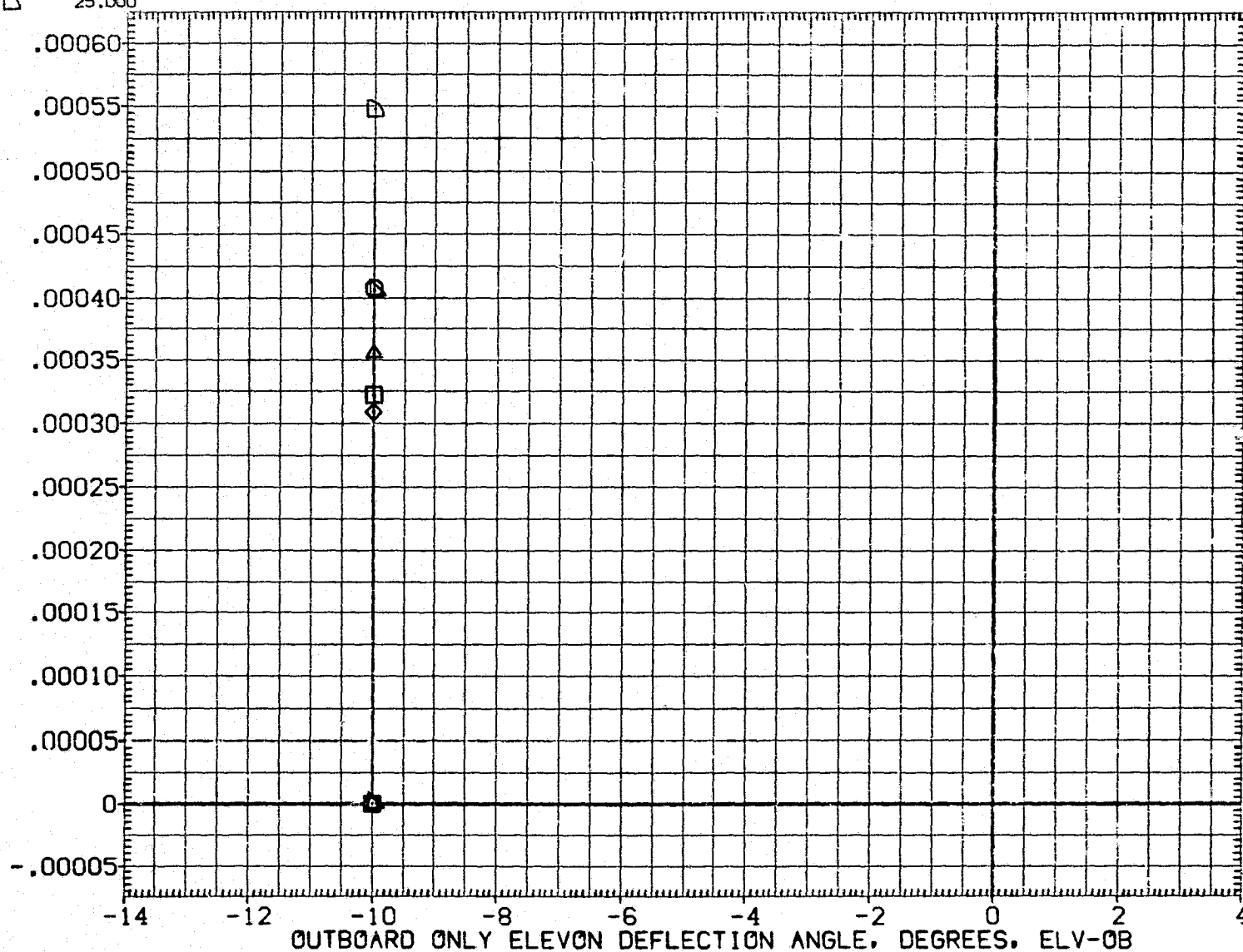


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV029)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DELVL.I	-40.000	DATASET	ELV-08	DATASET	ELV-08	SREF	2690.0000	50.FT.
○	.000									LREF	474.8100	IN.
◇	5.000	DELVR1	-40.000	BETA	.000	0TV029	-40.000	0TV030	.000	BREF	936.6800	IN.
△	10.000	SPDBRK	85.000	ALRNO8	.000					XMRP	1076.6800	IN.X0
▽	15.000									YMRP	.0000	IN.Y0
◻	20.000									ZMRP	375.0000	IN.Z0
◼	25.000									SCALE	.0150	

INCR. YAWING MOMENT COEFF. VAR. WITH AILERON DEFLECTION, DEG.. DCYNDA

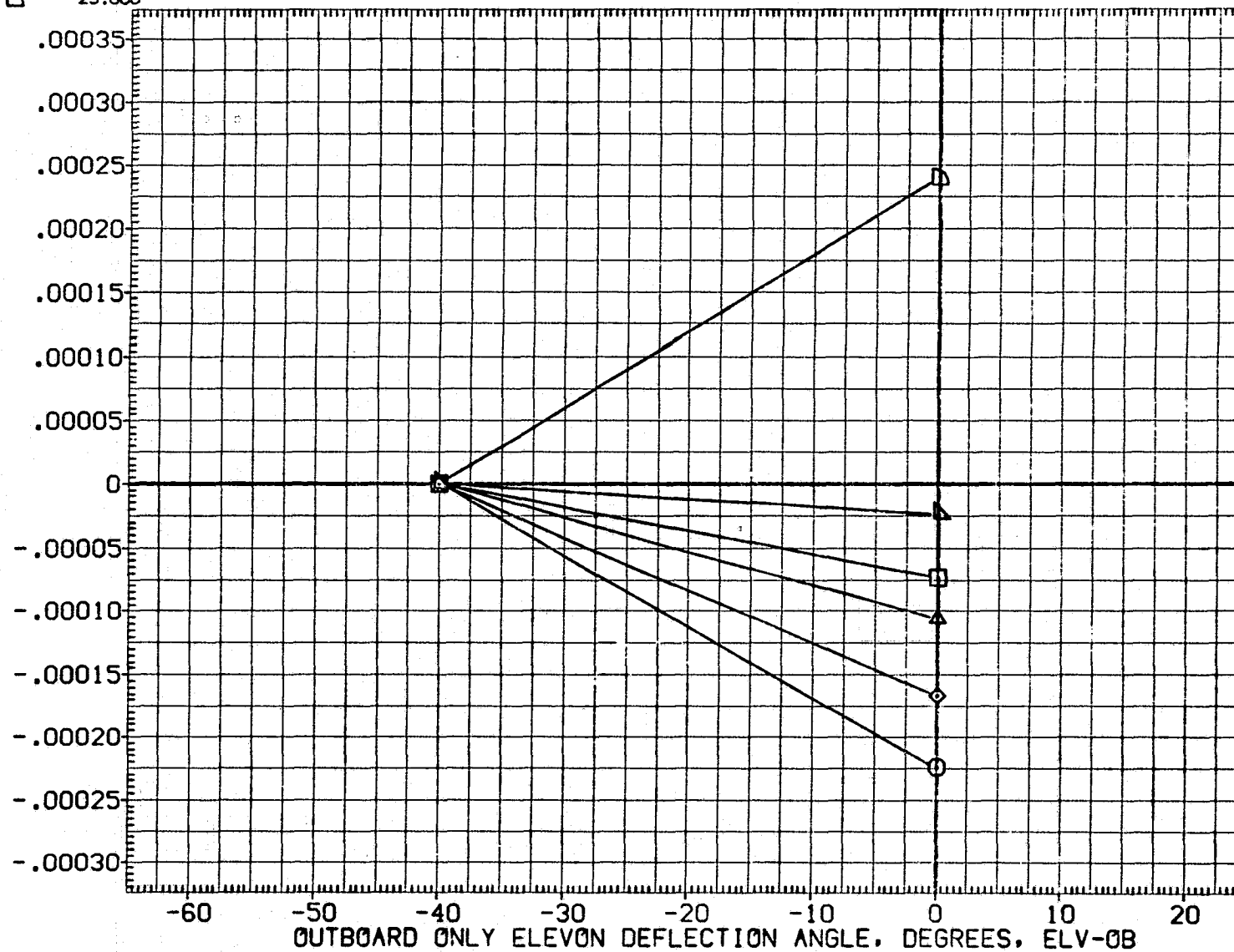


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV029)

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
□	.000	MACH 5.000 DELVLI -40.000	ELV-08 DATASET ELV-08	SREF 2690.0000 SQ.FT.
◇	5.000	DELVRI -40.000 BETA .000	0TV029 -40.000	LREF 474.8100 IN.
△	10.000	SPOBRK 85.000 ALRV08 .000	DATASET ELV-08	BREF 936.6800 IN.
▽	15.000		0TV030 .000	XMRP 1076.6800 IN.X0
◇	20.000			YMRP .0000 IN.Y0
□	25.000			ZMRP 375.0000 IN.Z0
				SCALE .0150

INCR. ROLLING MOMENT COEFF. VAR. WITH AILERON DEFLECTION, DEG., DCBLDA

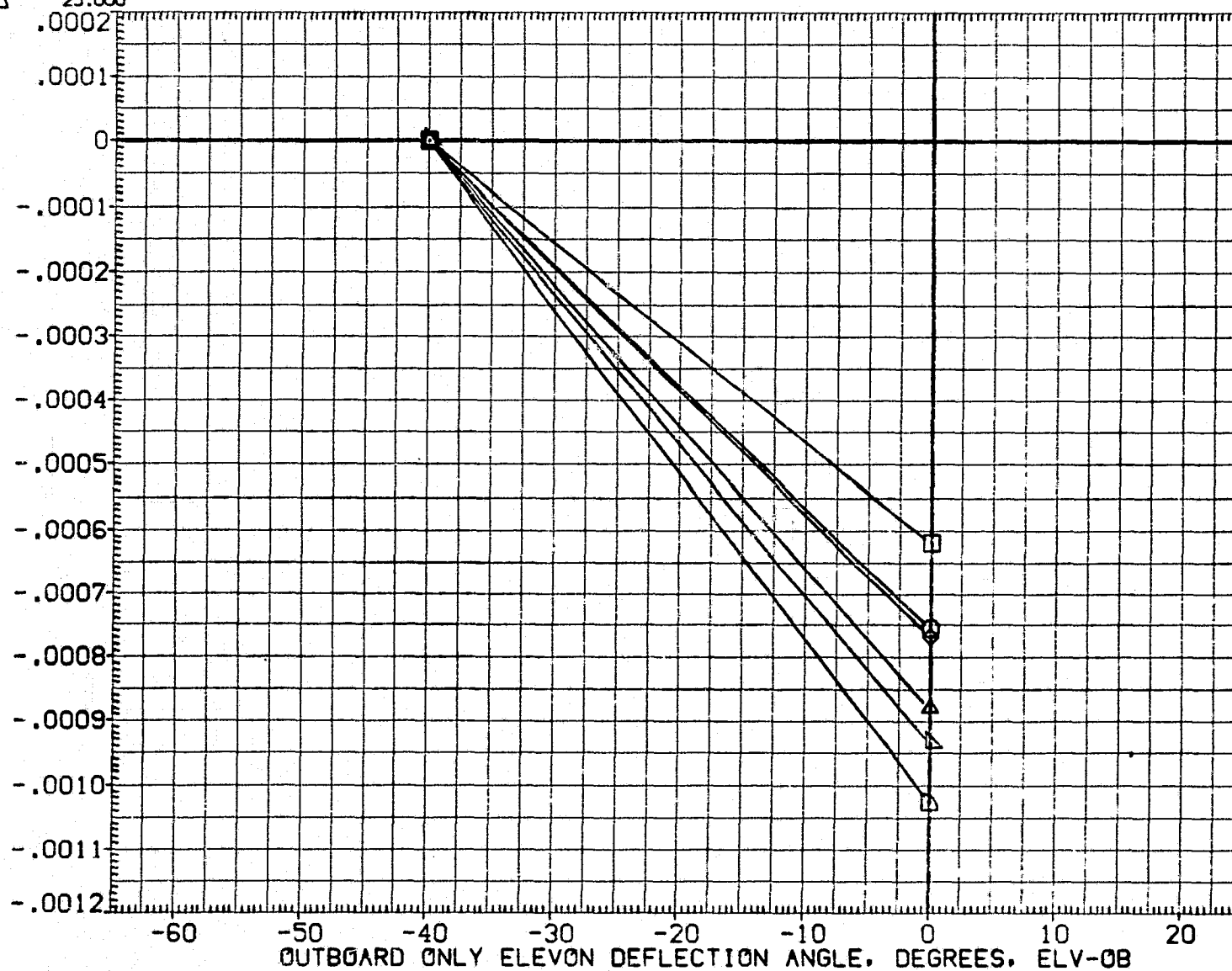


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV033)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
□	.000	5.000	DELVL1	.000 DATASET	SREF 2690.0000 SQ.FT.
◇	5.000	DELVR1	.000 BETA	.000 0TV033	LREF 474.8100 IN.
△	10.000	SPOBRK	85.000	DATASET 0TV024	BREF 936.6800 IN.
▽	15.000			ELV-08	XMRP 1076.6800 IN.X8
◇	20.000			ELV-08	YMRP .0000 IN.Y8
▽	25.000			ELV-08	ZMRP 375.0000 IN.Z8
				SCALE	.0150

INCR. YAWING MOMENT COEFF. VAR. WITHAILERON DEFLECTION.DEG.. DCYNDA

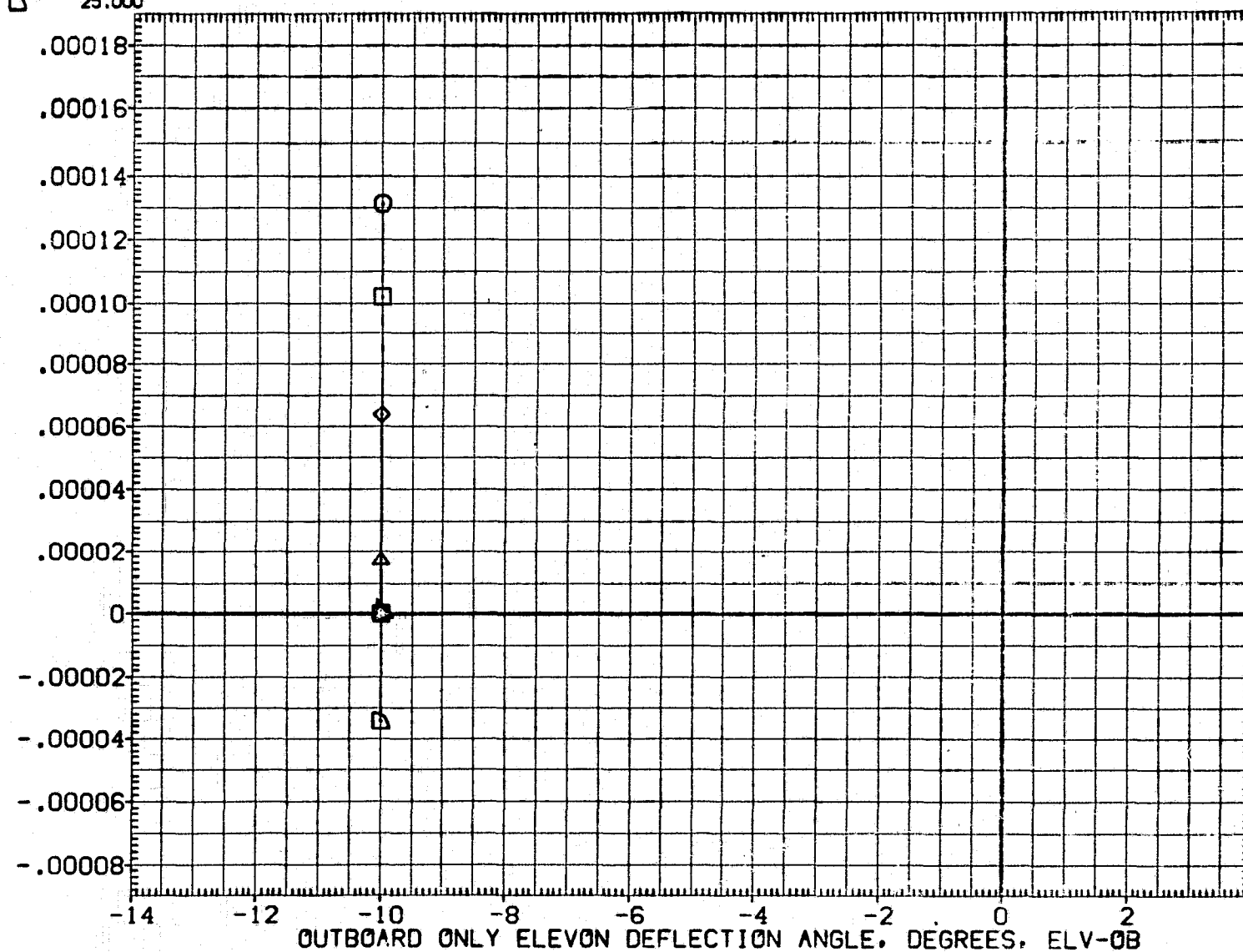


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV033)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
□	.000	5.000	DELVL1	.000 DATASET	SREF 2690.0000 SQ.FT.
◇	5.000	DELVR1	.000 BETA	.000 0TV033	LREF 474.8100 IN.
△	10.000	SPOBRK	85.000	0TV024	BREF 936.6800 IN.
▽	15.000				XMRP 1076.6800 IN.X0
◇	20.000				YMRP .0000 IN.Y0
□	25.000				ZMRP 375.0000 IN.Z0
					SCALE .0150

INCR. ROLLING MOMENT COEFF. VAR. WITHAILERON DEFLECTION, DEG.. DCBLDA

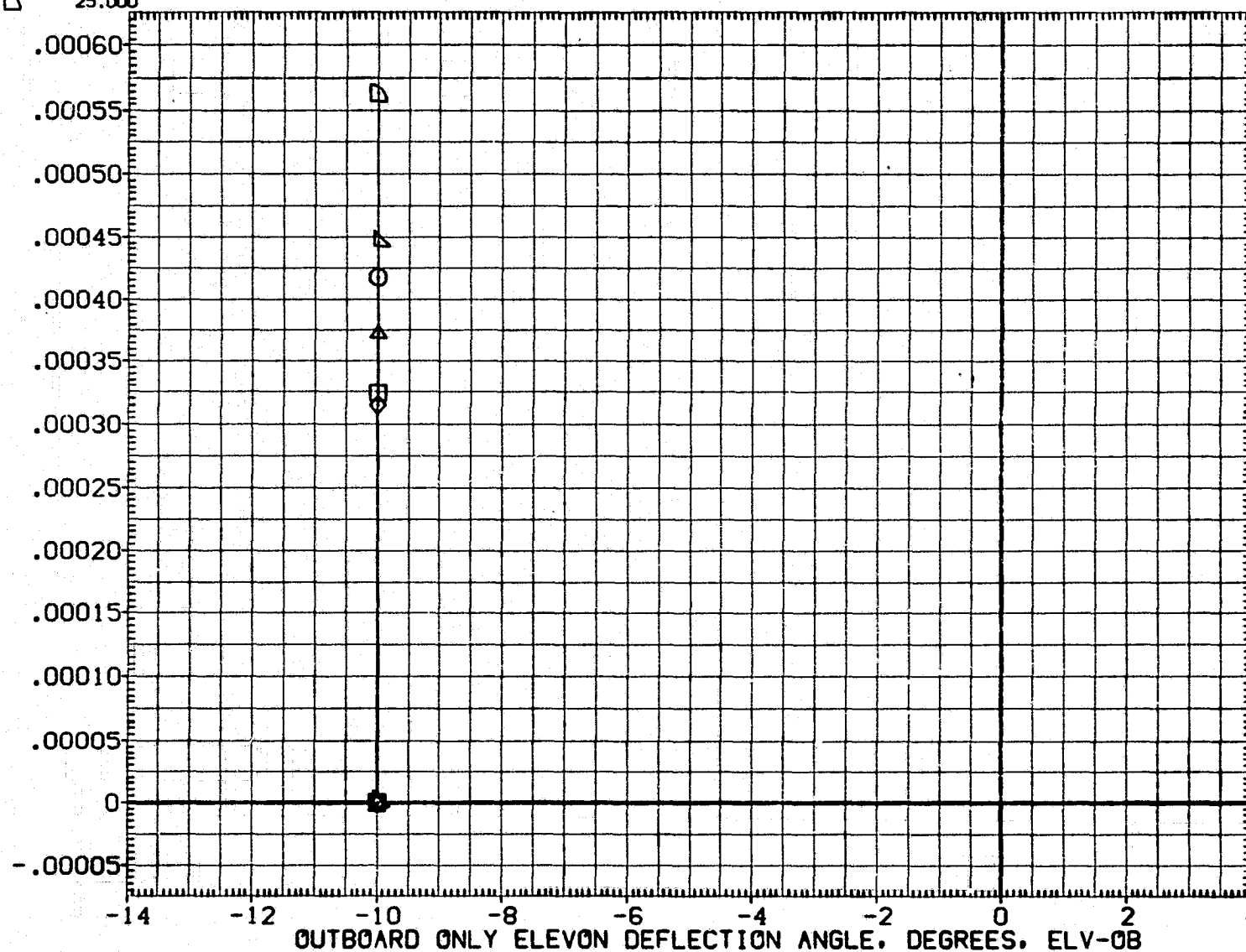


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

(0TV037)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DEL VLI	-10.000	DATASET	ELV-08	DATASET	ELV-08	SREF	2690.0000	SQ.FT.
□	.000	DEL VRI	-10.000	BETA	.000	OTV037	.000	OTV039	.000	LREF	474.8100	IN.
◇	5.000	SPOBRK	85.000							BREF	936.6800	IN.
◊	10.000									XMRP	1076.6800	IN.X0
△	15.000									YMRP	.0000	IN.Y0
▽	20.000									ZMRP	375.0000	IN.Z0
▽	25.000									SCALE	.0150	

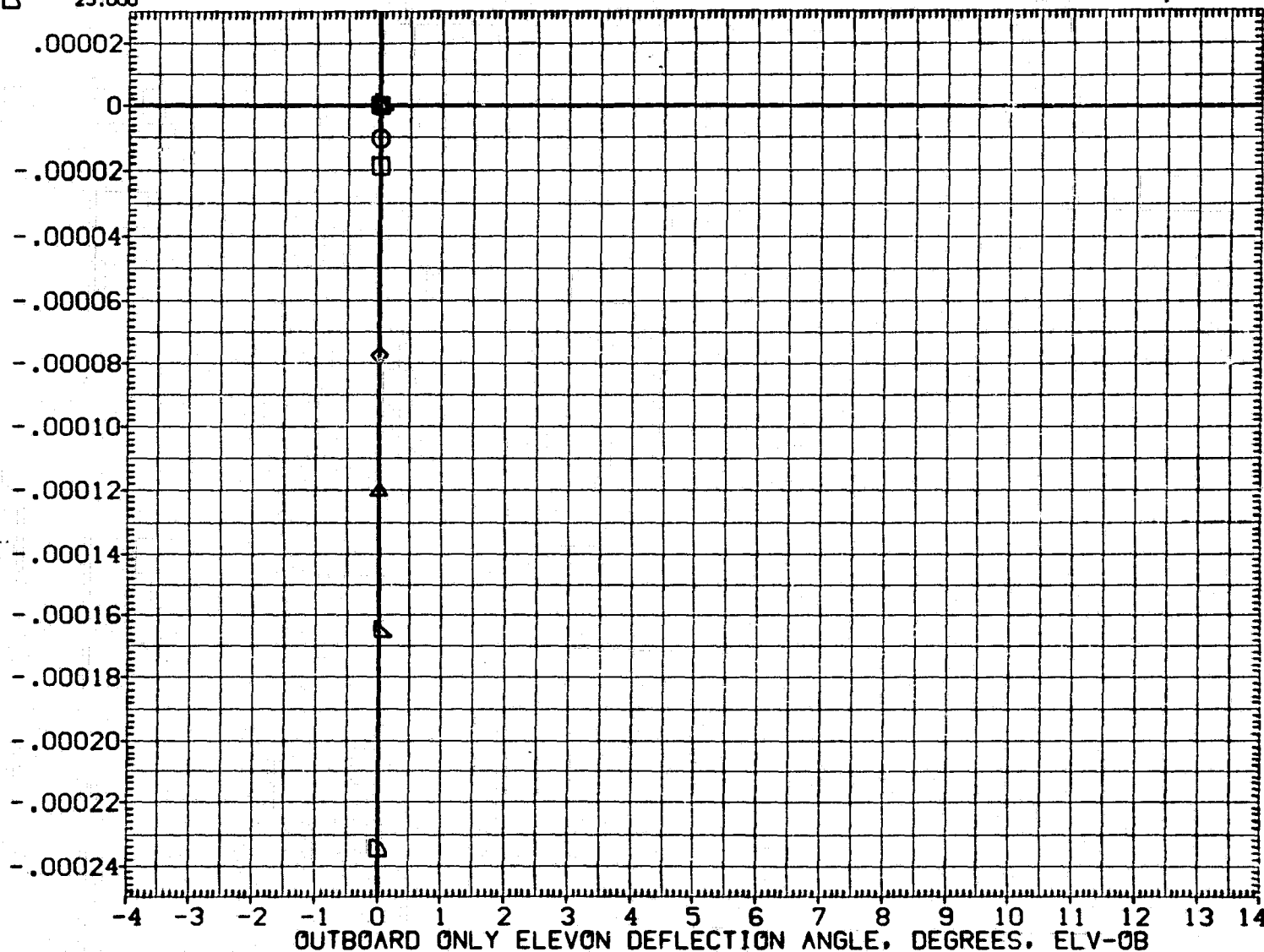


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV037)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	.000	MACH	5.000	DELVL I	-10.000	DATASET	ELV-08	DATASET	ELV-08	SREF	2690.0000	SQ.FT.
□	5.000	DELVRI	-10.000	BETA	.000	0TV037	.000	0TV039	.000	LREF	474.8100	IN.
◇	10.000	SPDRK	85.000							BREF	936.6800	IN.
△	15.000									XMRP	1076.6800	IN.X0
▽	20.000									YMRP	.0000	IN.Y0
◻	25.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCR. ROLLING MOMENT COEFF. VAR. WITH AILERON DEFLECTION, DEG., DCBLDA

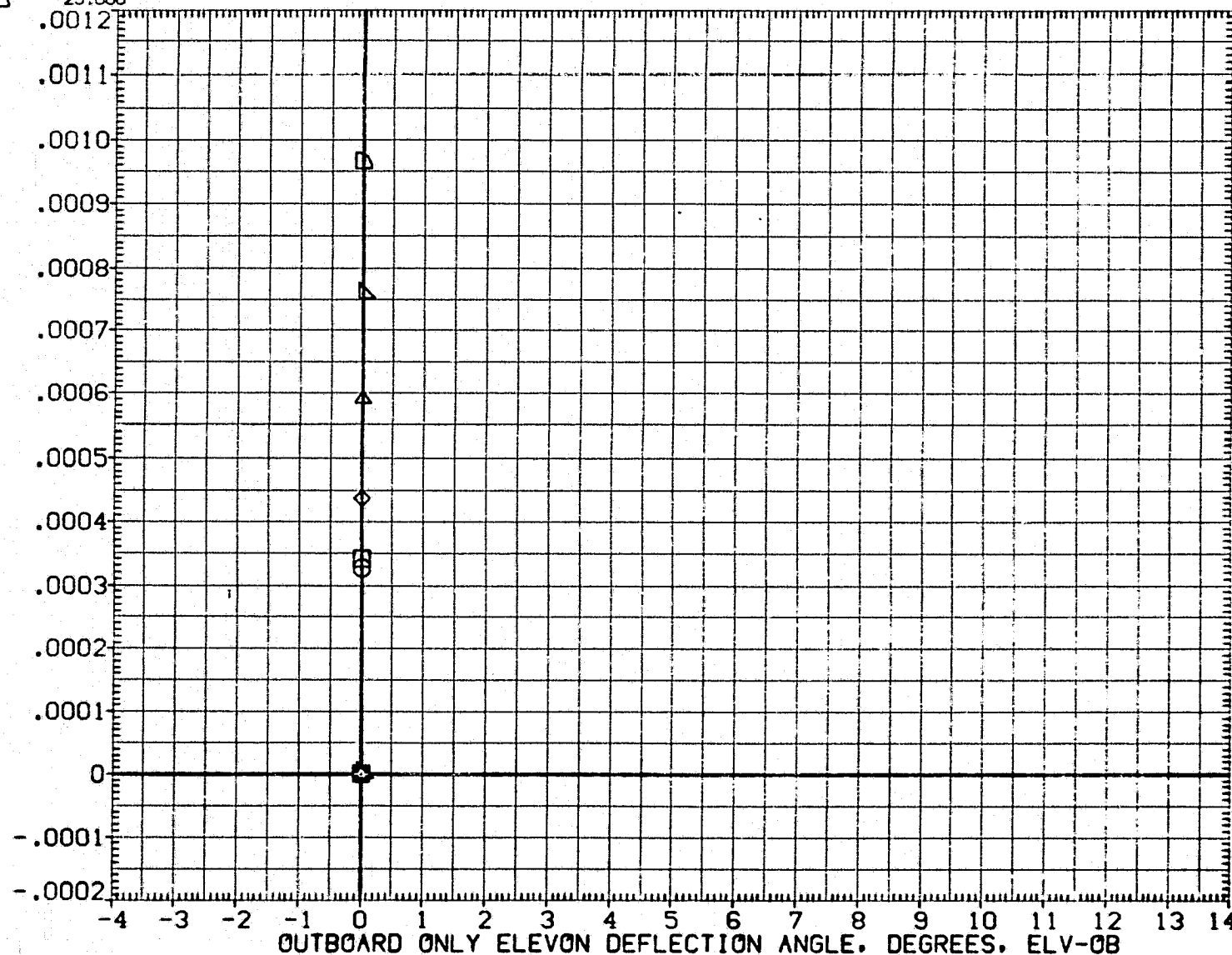


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(OTV041)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
□	.000	5.000	DEL VLI -20.000	ELV-08	SREF 2690.0000 SQ.FT.
◇	5.000	DEL VRI -20.000	BETA ,000	OTV041	LREF 474.8100 IN.
△	10.000	SPDBRK 85.000			BREF 936.6800 IN.
▽	15.000				XMRP 1076.6800 IN.X0
◇	20.000				YMRP .0000 IN.Y0
□	25.000				ZMRP 375.0000 IN.Z0
					SCALE .0150

INCR. YAWING MOMENT COEFF. VAR. WITH AILERON DEFLECTION, DEG.. DCYNDA

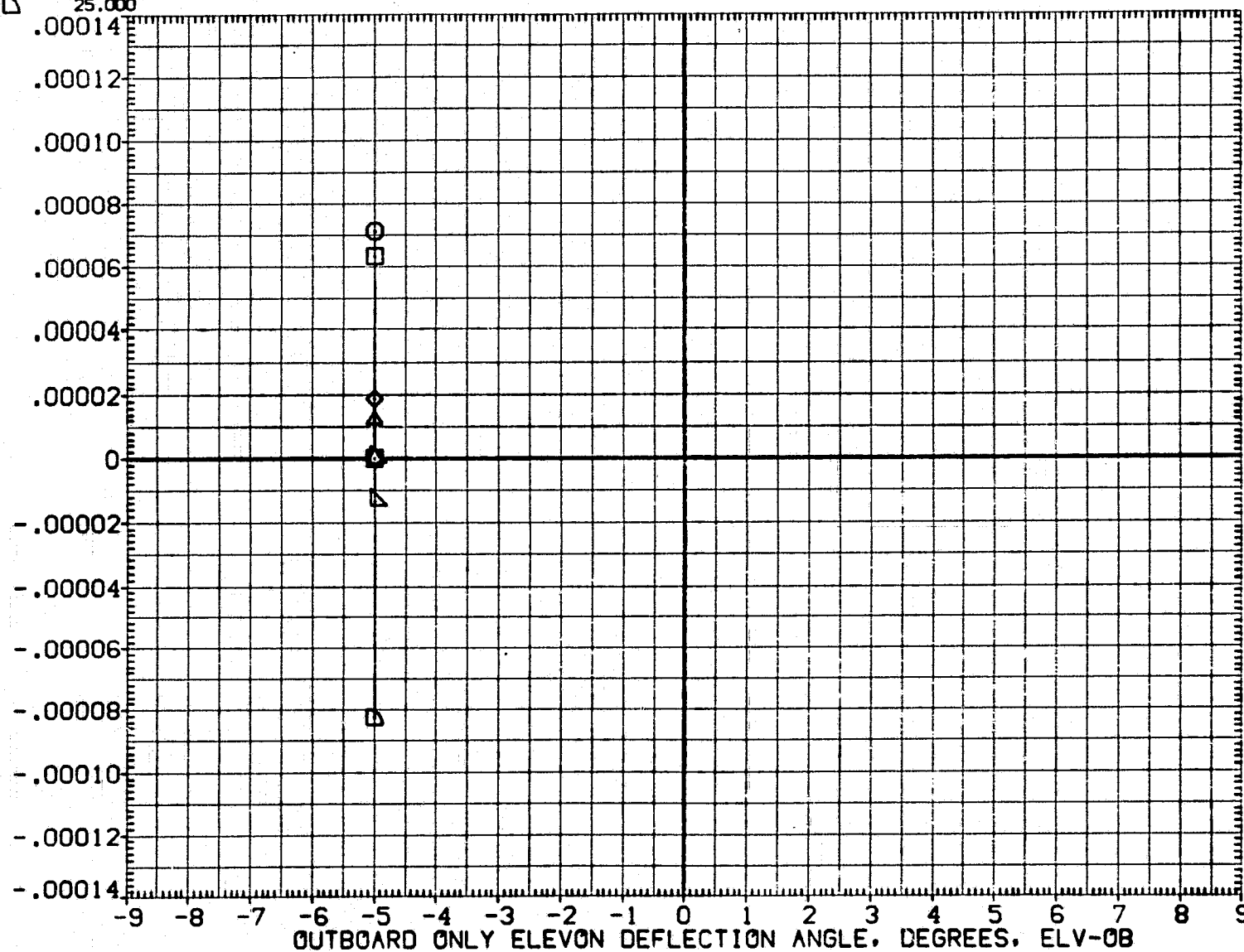


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A115

B26 C9 E43 F8 M16 N28 R5 V8 W116

(0TV041)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DEL VLI	-20.000	DATASET	ELV-08	DATASET	ELV-08	SREF	2690.0000	SO.FT.
	5.000	DEL VRI	-20.000	BETA	.000	0TV041	-5.000	0TV026	-5.000	LREF	474.8100	IN.
	10.000	SPDRK	85.000							BREF	936.6800	IN.
	15.000									XMRP	1076.6800	IN.X0
	20.000									YMRP	.0000	IN.Y0
	25.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

INCR. ROLLING MOMENT COEFF. VAR. WITH AILERON DEFLECTION, DEG.. DCBLDA

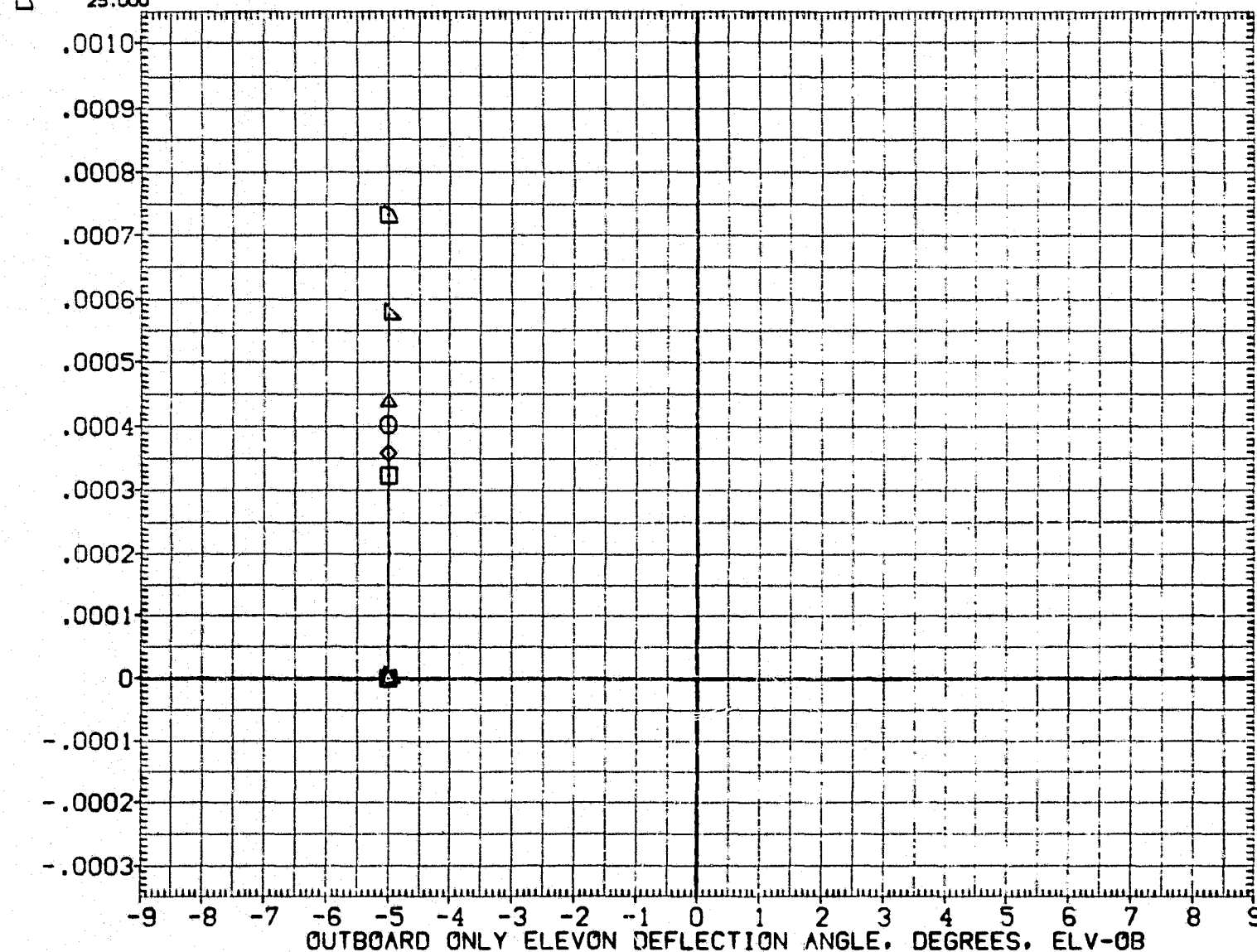


FIG. 22 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

APPENDIX
TABULATED SOURCE DATA

PRECEDING PAGE BLANK NOT FILMED

Tabulations of plotted data are available on request from
Data Management Services.

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 1

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 TUFTS

(RTV001) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 20.000
 ELV-LI = 20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BOFLAP = 16.300
 SPOBRK = 85.000 RUDDER = -10.000

RUN NO. 1/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.500	-2.561	-.14020	.17814	.01699	.03635	-.00990	.00789	.01220	.74533	-.13210	.18422
2.500	.014	-.04862	.17434	.01754	.02552	-.00875	.00621	.01174	.84304	-.04866	.17433
2.500	4.102	.09158	.16851	.01894	.00619	-.00653	.00413	.01179	.62509	.07929	.17463
2.500	8.181	.23289	.16082	.01895	-.00962	-.00574	.00274	.01280	.66514	.20764	.19232
2.500	12.292	.38357	.15403	.01997	-.02513	-.00513	.00140	.01400	.67405	.34199	.23216
2.500	16.420	.54584	.14673	.01954	-.04235	-.00483	-.00024	.01588	.67848	.48210	.29504
2.500	20.522	.71617	.13859	.02027	-.06409	-.00401	-.00220	.01820	.68286	.62214	.38087
2.500	24.638	.90088	.13170	.02037	-.08452	-.00393	-.00351	.02071	.68446	.76396	.49527
2.500	27.534	1.02930	.12538	.02038	-.09837	-.00138	-.00621	.02379	.68510	.85474	.58699
	GRADIENT	.03474	-.00144	.00030	-.00455	.00051	-.00056	-.00005	-.02127	.03169	-.00130

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 TUFTS

(RTV002) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = 20.000
 ELV-LI = 20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BOFLAP = 16.300
 SPOBRK = 85.000 RUDDER = -10.000

RUN NO. 2/ 0 RN/L = 2.56 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.500	-3.061	.76661	.13608	.01949	-.07126	.02667	.00603	.02404	.68414	.66298	.40824
2.500	-2.039	.75876	.13719	.01966	-.06778	.01395	.00434	.02131	.68281	.65533	.40630
2.500	-1.004	.75778	.13636	.01976	-.06830	.00545	.00068	.02004	.68310	.65478	.40509
2.500	.023	.76211	.13531	.01984	-.06950	-.00344	-.00268	.01879	.68349	.65908	.40588
2.500	1.063	.76131	.13505	.02013	-.06869	-.01032	-.00728	.01809	.68313	.65841	.40537
2.500	2.099	.75515	.13270	.01941	-.06676	-.01821	-.01099	.01704	.68246	.65343	.40112
2.500	3.106	.75319	.13081	.02014	-.06679	-.02882	-.01332	.01499	.68257	.65244	.39841
	GRADIENT	-.00152	-.00090	.00006	.00052	-.00855	-.00335	-.00130	-.00019	-.00110	-.00137

ORIGINAL PAGE IS
 OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 2

0A115 826 C9 E43 F8 M16 N28 R5 V8 W118 PRESS

(RTV003) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 85.000 RUDDER = .000

RUN NO. 10/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.459	-.15852	.17070	.02415	.07745	.00041	.00007	-.00022	.82971	-.15105	.17734
2.000	.099	-.05158	.16633	.02449	.06165	.00080	-.00000	-.00037	1.08970	-.05187	.16624
2.000	4.206	.10569	.15748	.02441	.03848	.00145	.00008	-.00054	.51596	.09385	.16481
2.000	8.320	.26268	.14852	.02423	.02166	.00235	.00019	-.00123	.61960	.23842	.18497
2.000	12.440	.42110	.13801	.02491	.00964	.00295	.00006	-.00093	.64152	.38149	.22548
2.000	16.543	.59733	.12925	.02712	-.00627	.00263	.00015	-.00079	.65380	.53580	.29398
2.000	20.673	.77027	.12131	.02906	-.02183	.00169	.00027	-.00110	.66037	.67784	.38543
2.000	24.838	.95295	.11073	.03121	-.03636	.00196	-.00007	-.00150	.66398	.81828	.50077
2.000	27.733	1.08060	.10255	.03138	-.04214	-.00010	.00085	-.00192	.66428	.90877	.59365
	GRADIENT	.03951	-.00200	.00003	-.00583	.00016	.00000	-.00005	-.05575	.03662	-.00174

RUN NO. 3/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.500	-2.460	-.14636	.15327	.01720	.04995	.00117	-.00034	.00016	.77551	-.13965	.15941
2.500	.083	-.06410	.14822	.01781	.04144	.00079	-.00027	.00006	.88779	-.06432	.14812
2.500	4.131	.06813	.14021	.01794	.02881	.00116	-.00039	.00003	.49433	.05786	.14475
2.500	8.270	.20171	.12967	.01766	.02042	.00136	-.00034	-.00007	.61269	.18096	.15734
2.500	12.424	.35076	.12118	.01871	.01184	.00132	-.00016	-.00016	.63752	.31648	.19381
2.500	16.537	.50570	.11518	.01958	.00245	.00117	-.00011	-.00022	.64816	.45200	.25435
2.500	20.676	.66730	.10413	.02043	-.01089	.00067	-.00018	-.00025	.65594	.58755	.33303
2.500	24.798	.84455	.09353	.02199	-.02692	.00063	-.00063	-.00032	.66167	.72745	.43913
2.500	27.589	.96567	.08610	.02135	-.03849	-.00036	-.00039	-.00037	.66460	.81598	.52355
	GRADIENT	.03256	-.00198	.00011	-.00320	.00001	-.00001	-.00002	-.04767	.02999	-.00210

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 3

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 PRESS

(RTV004) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 9/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.562	-.14249	.14285	.02329	.03984	.00040	.00008	-.00029	.75281	-.13597	.14908
2.000	.021	-.03597	.13834	.02327	.02546	.00056	.00009	-.00041	.91038	-.03602	.13833
2.030	4.123	.12346	.13164	.02398	.00442	.00104	.00024	-.00068	.63676	.11367	.14018
2.000	8.181	.27144	.12421	.02375	-.00918	.00205	.00014	-.00126	.66239	.25100	.16158
2.000	12.336	.43322	.11557	.02411	-.01912	.00287	.00003	-.00088	.66617	.39853	.20546
2.000	16.496	.60504	.10797	.02595	-.03235	.00225	.00013	-.00085	.66961	.54948	.27534
2.000	20.624	.78209	.10146	.02831	-.04793	.00123	.00048	-.00105	.67249	.69622	.37044
2.000	24.724	.95812	.09392	.03100	-.06037	.00161	-.00010	-.00136	.67312	.83102	.48604
2.000	27.667	1.09070	.08921	.03132	-.06333	.00123	.00010	-.00172	.67130	.92453	.58544
	GRADIENT	.03969	-.00167	.00011	-.00528	.00010	.00002	-.00006	-.02187	.03726	-.00117

RUN NO. 6/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.500	-2.628	-.13330	.12849	.01697	.01566	.00157	-.00045	.00017	.69316	-.12727	.13446
2.500	-.073	-.04762	.12452	.01760	.00893	.00107	-.00037	.00006	.71896	-.04747	.12458
2.500	4.023	.07617	.11800	.01780	-.00139	.00120	-.00031	.00000	.65666	.06771	.12305
2.500	8.168	.21275	.10908	.01762	-.00805	.00151	-.00039	-.00009	.66386	.19509	.13820
2.500	12.302	.36050	.10263	.01852	-.01527	.00144	-.00007	-.00027	.66552	.33036	.17708
2.500	16.457	.51526	.09613	.01883	-.02258	.00118	-.00008	-.00019	.66606	.46691	.23817
2.500	20.596	.67568	.08886	.02045	-.03252	.00106	-.00030	-.00023	.66765	.60123	.32086
2.500	24.703	.84677	.08123	.02210	-.04494	.00127	-.00099	-.00012	.66947	.73533	.42768
2.500	27.596	.97188	.07699	.02194	-.05301	.00005	-.00042	-.00025	.67001	.82565	.51844
	GRADIENT	.03138	-.00158	.00012	-.00256	-.00005	.00002	-.00002	-.00640	.02920	-.00159

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 4

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(RTV005) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPDRBK = 55.000 RUDDER = .000

RUN NO. 8/ 0 RN/L = 2.31 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CO
2.000	-2.000	-.11862	.14304	.02326	.03774	-.00016	.00014	-.00040	.76699	-.11356	.14710
2.000	.000	-.04048	.14104	.02326	.02781	.00068	-.00003	-.00043	.90276	-.04048	.14104
2.000	2.000	.03963	.13768	.02363	.01731	.00104	.00007	-.00045	.48921	.03480	.13898
2.000	4.000	.11664	.13461	.02399	.00724	.00108	.00005	-.00056	.62709	.10696	.14242
2.000	6.000	.19237	.13132	.02392	-.00143	.00136	.00025	-.00070	.65268	.17759	.15071
2.000	8.000	.26293	.12715	.02376	-.00674	.00203	.00020	-.00113	.65936	.24268	.16250
2.000	10.000	.33805	.12382	.02389	-.01097	.00298	-.00014	-.00128	.66188	.31141	.18064
2.000	12.000	.41874	.11997	.02405	-.01592	.00292	.00002	-.00089	.66393	.38485	.20441
2.000	14.000	.50091	.11581	.02504	-.02148	.00266	-.00008	-.00070	.66570	.45801	.23355
2.000	16.000	.58462	.11246	.02588	-.02797	.00251	.00003	-.00064	.66754	.53097	.26925
2.000	18.000	.67331	.10764	.02713	-.03644	.00208	.00024	-.00087	.66985	.60710	.31044
2.000	20.000	.75217	.10288	.02823	-.04525	.00149	.00037	-.00111	.67207	.67162	.35393
2.000	22.000	.84128	.10084	.02884	-.05211	.00161	.00029	-.00120	.67273	.74225	.40885
2.000	24.000	.93692	.09773	.03084	-.05882	.00123	.00023	-.00140	.67304	.81617	.47036
2.000	26.000	1.02500	.09348	.03116	-.06215	.00066	-.00023	-.00128	.67225	.88032	.53336
2.000	27.000	1.07070	.09240	.03126	-.06261	.00081	-.00031	-.00131	.67152	.91203	.56840
GRADIENT		.03895	-.00149	.00010	-.00495	.00017	.00001	-.00004	-.02521	.03649	.00043

RUN NO. 7/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CO
2.500	-2.000	-.11128	.12750	.01716	.01490	.00129	-.00035	.00019	.69922	-.10676	.13130
2.500	.000	-.04904	.12438	.01760	.00973	.00139	-.00036	.00006	.72295	-.04904	.12438
2.500	2.000	.01351	.12191	.01776	.00410	.00140	-.00035	.00004	.53838	.00925	.12231
2.500	4.000	.07480	.11844	.01780	-.00027	.00144	-.00037	.00001	.65126	.06636	.12337
2.500	6.000	.13699	.11376	.01768	-.00426	.00150	-.00039	-.00006	.66137	.12434	.12746
2.500	8.000	.20081	.11018	.01760	-.00666	.00168	-.00041	-.00014	.66214	.18353	.13704
2.500	10.000	.27118	.10693	.01803	-.00989	.00157	-.00023	-.00006	.66336	.24850	.15240
2.500	12.000	.34221	.10391	.01848	-.01321	.00152	-.00011	-.00029	.66415	.31312	.17279
2.500	14.000	.41638	.10063	.01863	-.01708	.00154	-.00011	-.00020	.66503	.37966	.19837
2.500	16.000	.48872	.09722	.01877	-.02069	.00161	-.00010	-.00019	.66552	.44299	.22817
2.500	18.000	.56709	.09442	.01937	-.02519	.00119	-.00009	-.00029	.66628	.51016	.26504
2.500	20.000	.64391	.08984	.02019	-.02979	.00128	-.00031	-.00033	.66696	.57435	.30465
2.500	22.000	.72685	.08607	.02103	-.03596	.00105	-.00068	-.00025	.66814	.64169	.35208
2.500	24.000	.81146	.08316	.02185	-.04174	.00126	-.00087	-.00016	.66886	.70748	.40602
2.500	26.000	.89751	.07982	.02215	-.04759	.00072	-.00090	-.00028	.66945	.77168	.46518
2.500	27.000	.94002	.07800	.02208	-.05084	-.00024	-.00056	-.00029	.66984	.80215	.49626
GRADIENT		.03102	-.00167	.00006	-.00242	.00002	-.00001	-.00003	-.00737	.02888	-.00043

DATE 10 JUL 75

TABULATED SOURCE DATA - OA115

PAGE 5

OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV005) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-RO = .000 BOFLAP = .000
 SPCBRK = 55.000 RUDDER = .000

RUN NO. 80/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.10574	.10325	.00864	-.00915	-.00114	.00065	-.00003	.61811	-.10207	.10688
4.020	.000	-.06209	.09921	.00886	-.00834	-.00097	.00058	-.00008	.60051	-.06209	.09821
4.020	2.000	-.01713	.09445	.00894	-.00735	-.00096	.00050	-.00010	.49203	-.02042	.09379
4.020	4.000	.02883	.09070	.00898	-.00609	-.00101	.00048	-.00019	.72769	.02243	.09249
4.020	6.000	.07797	.08625	.00909	-.00608	-.00126	.00046	-.00016	.67865	.06852	.09392
4.020	8.000	.12883	.08394	.00929	-.00589	-.00168	.00060	-.00032	.66577	.11589	.10106
4.020	10.000	.18262	.08150	.00937	-.00661	-.00169	.00044	-.00029	.66325	.16570	.11198
4.020	12.000	.24029	.07945	.00934	-.00767	-.00190	.00036	-.00034	.66168	.21852	.12768
4.020	14.000	.30255	.07731	.00926	-.00925	-.00190	.00029	-.00041	.66119	.27486	.14820
4.020	16.000	.36724	.07517	.00921	-.01206	-.00186	.00010	-.00048	.66202	.33229	.17348
4.020	18.000	.43572	.07345	.00920	-.01467	-.00190	.00002	-.00053	.66233	.39170	.20450
4.020	20.000	.50669	.07147	.00924	-.01745	-.00195	-.00017	-.00053	.66261	.45169	.24046
4.020	22.000	.58143	.07038	.00932	-.02000	-.00206	-.00027	-.00061	.66259	.51273	.28307
4.020	24.000	.66058	.06937	.00941	-.02311	-.00257	-.00025	-.00071	.66281	.57525	.33206
4.020	26.000	.74407	.06769	.00954	-.02726	-.00298	-.00023	-.00073	.66342	.63909	.38702
4.020	27.000	.78676	.06676	.00962	-.02963	-.00289	-.00033	-.00063	.66380	.67070	.41667
	GRADIENT	.02292	-.00208	.00005	.00042	-.00001	-.00002	-.00002	.01241	.02129	-.00158

RUN NO. 14/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.09989	.09381	.00558	-.01422	-.00160	.00065	.00009	.59744	-.09636	.09703
5.020	.000	-.06224	.08748	.00558	-.01361	-.00140	.00060	.00004	.56944	-.06224	.08748
5.020	2.000	-.02442	.08311	.00568	-.01217	-.00142	.00046	.00012	.46654	-.02730	.08220
5.020	4.000	.01547	.07893	.00578	-.01104	-.00175	.00044	.00004	.91246	.00993	.07982
5.020	6.000	.05740	.07433	.00580	-.01047	-.00205	.00041	.00002	.71708	.04931	.07992
5.020	8.000	.10275	.07154	.00580	-.00999	-.00224	.00036	-.00003	.68571	.09179	.08515
5.020	10.000	.15042	.06937	.00583	-.00984	-.00244	.00039	-.00014	.67402	.13609	.09444
5.020	12.000	.20232	.06744	.00587	-.00981	-.00295	.00037	-.00019	.66778	.18388	.10803
5.020	14.000	.25817	.06608	.00586	-.00904	-.00323	.00033	-.00024	.66282	.23451	.12657
5.020	16.000	.31770	.06528	.00582	-.00842	-.00352	.00032	-.00033	.65969	.28740	.15032
5.020	18.000	.38097	.06480	.00581	-.00768	-.00361	.00021	-.00042	.65735	.34230	.17935
5.020	20.000	.44847	.06413	.00582	-.00735	-.00353	.00008	-.00046	.65597	.39949	.21365
5.020	22.000	.52018	.06344	.00590	-.00765	-.00381	.00011	-.00055	.65535	.45854	.25369
5.020	24.000	.59551	.06243	.00600	-.00957	-.00425	.00014	-.00059	.65585	.51863	.29925
5.020	26.000	.67402	.06146	.00607	-.01294	-.00426	.00013	-.00060	.65700	.57886	.35071
	GRADIENT	.01959	-.00236	.00003	.00050	-.00006	-.00003	-.00001	.02912	.01818	-.00209

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 6

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV006) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 85.000 RUDDER = .000

RUN NO. 11/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CSL	XCP/L	CL	CD
2.000	-2.000	-.13850	.17104	.02415	.07479	.00029	.00025	-.00018	.84863	-.13244	.17577
2.000	.000	-.06013	.16664	.02452	.06341	.00071	-.00002	-.00035	1.03790	-.06013	.16664
2.000	2.000	.01998	.16298	.02446	.05149	.00111	.00002	-.00038	-.29801	.01428	.16358
2.000	4.000	.09576	.15742	.02441	.04035	.00125	.00005	-.00056	.49488	.08454	.16372
2.000	6.000	.17080	.15382	.02433	.03065	.00160	.00016	-.00073	.58390	.15378	.17083
2.000	8.000	.24175	.14831	.02425	.02362	.00211	.00020	-.00110	.61399	.21876	.18051
2.000	10.000	.31791	.14397	.02457	.01852	.00301	-.00016	-.00134	.62850	.28808	.19699
2.000	12.000	.40149	.14210	.02488	.01327	.00286	-.00000	-.00096	.63778	.36318	.22247
2.000	14.000	.48310	.13678	.02603	.00556	.00299	.00013	-.00061	.64570	.43566	.24959
2.000	16.000	.56695	.13210	.02708	-.00286	.00257	.00014	-.00061	.65180	.50857	.28326
2.000	18.000	.64550	.12466	.02804	-.01074	.00186	.00034	-.00083	.65606	.57538	.31803
2.000	20.000	.73692	.12270	.02901	-.01768	.00153	.00022	-.00106	.65877	.65051	.36734
2.000	22.000	.82058	.11805	.03011	-.02612	.00150	.00028	-.00111	.66165	.71661	.41685
2.000	24.000	.92041	.11458	.03110	-.03385	.00108	.00058	-.00142	.66347	.79423	.47904
2.000	26.000	1.00160	.10797	.03126	-.03729	-.00021	.00067	-.00104	.66364	.85289	.53611
2.000	27.000	1.03720	.10547	.03131	-.03880	.00077	.00041	-.00179	.66370	.87629	.56487
	GRADIENT	.03872	-.00218	.00001	-.00557	.00016	-.00001	-.00006	-.05362	.03586	-.00064

RUN NO. 4/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CSL	XCP/L	CL	CD
2.500	-2.000	-.12869	.15283	.01735	.04926	.00222	-.00057	.00021	.79079	-.12328	.15723
2.500	.000	-.06525	.14824	.01778	.04241	.00151	-.00044	.00009	.88907	-.06525	.14824
2.500	2.000	-.00107	.14522	.01793	.03586	.00153	-.00046	.00002	12.97700	-.00614	.14510
2.500	4.000	.06124	.14119	.01793	.03026	.00172	-.00051	.00004	.46813	.05124	.14512
2.500	6.000	.12384	.13610	.01776	.02506	.00168	-.00045	-.00005	.57546	.10893	.14830
2.500	8.000	.18843	.13156	.01765	.02163	.00176	-.00041	-.00012	.60769	.16829	.15650
2.500	10.000	.25680	.12606	.01803	.01710	.00156	-.00027	-.00003	.62543	.23100	.16873
2.500	12.000	.33067	.12418	.01860	.01303	.00170	-.00021	-.00019	.63544	.29763	.19021
2.500	14.000	.40547	.12101	.01909	.00836	.00158	-.00014	-.00018	.64235	.36415	.21550
2.500	16.000	.47972	.11806	.01949	.00415	.00149	-.00010	-.00011	.64675	.42860	.24572
2.500	18.000	.55517	.11304	.01984	-.00153	.00129	-.00010	-.00018	.65096	.49306	.27906
2.500	20.000	.63686	.10723	.02027	-.00808	.00116	-.00026	-.00024	.65460	.56178	.31858
2.500	22.000	.72064	.10190	.02084	-.01552	.00089	-.00045	-.00030	.65786	.62999	.36444
2.500	24.000	.80473	.09654	.02178	-.02318	.00085	-.00068	-.00028	.66054	.69589	.41551
2.500	26.000	.88775	.09028	.02185	-.03155	.00043	-.00064	-.00045	.66302	.75833	.47031
2.500	27.000	.93521	.08768	.02158	-.03498	.00015	-.00040	-.00038	.66370	.79348	.50270
	GRADIENT	.03158	-.00203	.00005	-.00303	-.00004	.00001	-.00003	-.04258	.02905	-.00105

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 7

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(RTV006) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 85.000 RUDDER = .000

RUN NO. 86/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.11776	.12059	.00864	.01556	-.00135	.00075	-.00009	.69858	-.11348	.12463
4.020	.000	-.07363	.11421	.00886	.01437	-.00134	.00069	-.00014	.72174	-.07363	.11421
4.020	2.000	-.02810	.10986	.00894	.01441	-.00110	.00057	-.00015	.83870	-.03192	.10881
4.020	4.000	.01823	.10601	.00898	.01547	-.00116	.00056	-.00022	.33762	.01079	.10702
4.020	6.000	.06751	.10165	.00909	.01564	-.00135	.00057	-.00024	.56470	.05651	.10815
4.020	8.000	.11813	.09969	.00929	.01626	-.00178	.00064	-.00032	.59928	.10310	.11516
4.020	10.000	.17269	.09613	.00937	.01394	-.00185	.00051	-.00031	.62024	.15337	.12466
4.020	12.000	.23094	.09322	.00934	.01157	-.00195	.00043	-.00038	.63150	.20651	.13920
4.020	14.000	.29408	.08939	.00926	.00810	-.00223	.00042	-.00049	.63980	.26372	.15788
4.020	16.000	.36029	.08542	.00921	.00285	-.00209	.00023	-.00052	.64702	.32279	.18142
4.020	18.000	.42944	.08209	.00920	-.00199	-.00230	.00018	-.00062	.65164	.38306	.21077
4.020	20.000	.50234	.07894	.00924	-.00547	-.00201	-.00010	-.00056	.65468	.44504	.24599
4.020	22.000	.57813	.07622	.00932	-.01146	-.00229	-.00016	-.00062	.65723	.50748	.28724
4.020	24.000	.65781	.07385	.00941	-.01636	-.00258	-.00018	-.00076	.65909	.57090	.33502
4.020	26.000	.74179	.07091	.00954	-.02234	-.00295	-.00025	-.00074	.66102	.63563	.38892
4.020	27.000	.78655	.06967	.00962	-.02487	-.00292	-.00038	-.00065	.66157	.66919	.41916
	GRADIENT	.02312	-.00230	.00005	.00006	.00001	-.00002	-.00002	-.03259	.02122	-.00201

RUN NO. 13/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.10824	.10720	.00556	.00598	-.00013	.00058	.00008	.67026	-.10444	.11091
5.020	.000	-.06894	.09981	.00558	.00468	.00008	.00044	.00007	.67492	-.06894	.09981
5.020	2.000	-.02962	.09466	.00568	.00476	-.00008	.00034	.00013	.70910	-.03291	.09357
5.020	4.000	.00948	.09025	.00578	.00574	-.00033	.00031	.00010	.42712	.00316	.09069
5.020	6.000	.05157	.08593	.00580	.00694	-.00034	.00024	.00007	.60039	.04231	.09085
5.020	8.000	.09646	.08318	.00580	.00801	-.00077	.00026	.00001	.61937	.08394	.09580
5.020	10.000	.14542	.07954	.00583	.00621	-.00135	.00039	-.00013	.63423	.12940	.10358
5.020	12.000	.19863	.07572	.00587	.00380	-.00163	.00034	-.00017	.64290	.17855	.11537
5.020	14.000	.25553	.07294	.00586	.00291	-.00199	.00032	-.00024	.64575	.23029	.13259
5.020	16.000	.31575	.07012	.00582	.00106	-.00176	.00019	-.00031	.64871	.28419	.15444
5.020	18.000	.38001	.06848	.00581	.00027	-.00196	.00006	-.00035	.64968	.34025	.18256
5.020	20.000	.44912	.06725	.00582	-.00040	-.00231	.00013	-.00049	.65026	.39904	.21681
5.020	22.000	.52189	.06553	.00590	-.00262	-.00238	.00008	-.00056	.65179	.45934	.25626
5.020	24.000	.59783	.06394	.00600	-.00577	-.00298	.00023	-.00063	.65349	.52014	.30158
5.020	26.000	.68293	.06211	.00607	-.00841	-.00294	.00014	-.00066	.65447	.58658	.35520
	GRADIENT	.01990	-.00261	.00003	.00015	-.00004	-.00004	.00000	-.01938	.01828	-.00246

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 8

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(RTV007) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = .000 ELV-R1 = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 85.000 RUDDER = .000

RUN NO. 12/ 0 RN/L = 2.50 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CEL	XCP/L	CL	CD
5.020	-3.010	.49374	.06641	.00613	-.00478	.02581	.00321	.00413	.65350	.43636	.24038
5.020	-2.011	.49326	.06626	.00610	-.00338	.01533	.00297	.00208	.65246	.43592	.24015
5.020	-1.002	.49191	.06644	.00601	-.00220	.00590	.00194	.00051	.65158	.43467	.23969
5.020	.001	.49246	.06652	.00593	-.00190	-.00197	-.00006	-.00051	.65136	.43505	.24016
5.020	1.011	.49607	.06660	.00597	-.00270	-.00908	-.00244	-.00132	.65194	.43837	.24157
5.020	2.015	.49785	.06616	.00604	-.00367	-.01837	-.00358	-.00275	.65265	.44013	.24190
5.020	3.021	.49658	.06611	.00610	-.00408	-.02903	-.00368	-.00468	.65296	.43903	.24128
	GRADIENT	.00078	-.00003	-.00001	.00004	-.00877	-.00135	-.00135	-.00003	.00072	.00029

0A115 B26 C9 E43 F8 R5 V8 W116

(RTV008) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-R1 = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 94/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CEL	XCP/L	CL	CD
2.000	-2.000	-.08591	.12591	.01964	.00971	-.00087	.00058	-.00066	.69151	-.08147	.12883
2.000	.000	-.01173	.12418	.01964	.00273	.00039	.00033	-.00074	.73565	-.01173	.12418
2.000	2.000	.06443	.12286	.01995	-.00523	.00062	.00033	-.00085	.67983	.06010	.12503
2.000	4.000	.13981	.12056	.02026	-.01298	.00083	.00043	-.00094	.68410	.13106	.13002
2.000	6.000	.21473	.11923	.02019	-.02036	.00129	.00050	-.00099	.68482	.20110	.14102
2.000	8.000	.28786	.11623	.02006	-.02641	.00156	.00047	-.00098	.68369	.26888	.15516
2.000	10.000	.36434	.11281	.02017	-.03062	.00174	.00044	-.00081	.68086	.33922	.17436
2.000	12.000	.44366	.10960	.02030	-.03467	.00207	.00039	-.00086	.67869	.41118	.19945
2.000	14.000	.52913	.10673	.02114	-.03903	.00220	.00034	-.00082	.67708	.48759	.23157
2.000	16.000	.61477	.10473	.02185	-.04307	.00186	.00048	-.00083	.67572	.56209	.27013
2.000	18.000	.69379	.10194	.02291	-.04819	.00149	.00052	-.00102	.67550	.62833	.31134
2.000	20.000	.78559	.09949	.02383	-.05662	.00115	.00070	-.00122	.67646	.70418	.36218
2.000	22.000	.87010	.09592	.02502	-.06285	.00063	.00076	-.00116	.67652	.77081	.41488
2.000	24.000	.95345	.09202	.02604	-.06898	.00042	.00066	-.00130	.67656	.83359	.47186
2.000	26.000	1.04520	.08885	.02630	-.07417	.00137	.00010	-.00169	.67605	.90043	.53803
2.000	27.000	1.08840	.08809	.02639	-.07463	.00307	-.00062	-.00175	.67517	.92977	.57261
	GRADIENT	.03764	-.00085	.00009	-.00379	.00024	-.00000	-.00004	-.00325	.03540	.00151

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 9

0A115

826 C9 E43 F8

R5 V8 W118

(RTV008) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 82/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.08801	.08879	.00729	-.02471	-.00134	.00065	-.00008	.54663	-.08488	.09180
4.020	.000	-.04654	.08569	.00748	-.02235	-.00137	.00060	-.00013	.47328	-.04654	.08569
4.020	2.000	-.00320	.08309	.00755	-.01967	-.00133	.00054	-.00016	-1.61500	-.00609	.08293
4.020	4.000	.04060	.08086	.00758	-.01691	-.00146	.00052	-.00021	.80318	.03486	.08349
4.020	6.000	.08745	.07861	.00767	-.01460	-.00139	.00042	-.00021	.71137	.07875	.08732
4.020	8.000	.13619	.07652	.00784	-.01323	-.00134	.00037	-.00023	.68569	.12422	.09473
4.020	10.000	.18918	.07450	.00791	-.01273	-.00146	.00022	-.00020	.67470	.17337	.10622
4.020	12.000	.24587	.07291	.00788	-.01275	-.00172	.00019	-.00027	.66901	.22534	.12244
4.020	14.000	.30668	.07148	.00782	-.01345	-.00189	.00016	-.00038	.66608	.28026	.14354
4.020	16.000	.37060	.06999	.00778	-.01581	-.00200	.00007	-.00045	.66563	.33695	.16943
4.020	18.000	.43993	.06880	.00777	-.01857	-.00198	-.00007	-.00053	.66547	.39714	.20138
4.020	20.000	.51196	.06782	.00780	-.02105	-.00233	-.00013	-.00057	.66507	.45789	.23883
4.020	22.000	.58703	.06691	.00786	-.02377	-.00234	-.00020	-.00062	.66484	.51922	.28194
4.020	24.000	.66545	.06638	.00794	-.02642	-.00239	-.00031	-.00064	.66455	.58091	.33131
4.020	26.000	.74780	.06588	.00805	-.02982	-.00259	-.00037	-.00068	.66461	.64324	.38703
4.020	27.000	.79010	.06564	.00812	-.03188	-.00256	-.00044	-.00066	.66478	.67418	.41719
	GRADIENT	.02190	-.00126	.00004	.00128	-.00001	-.00003	-.00002	.03297	.02043	-.00056

RUN NO. 17/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.08881	.08215	.00470	-.02718	-.00079	.00067	.00005	.53732	-.08589	.08520
5.020	.000	-.05154	.07833	.00471	-.02479	-.00064	.00055	.00006	.47296	-.05154	.07833
5.020	2.000	-.01516	.07513	.00479	-.02168	-.00070	.00045	.00008	.12384	-.01778	.07456
5.020	4.000	.02231	.07270	.00488	-.01859	-.00096	.00042	.00004	.95646	.01719	.07408
5.020	6.000	.06201	.07006	.00489	-.01602	-.00090	.00032	.00002	.74498	.05435	.07616
5.020	8.000	.10478	.06782	.00490	-.01356	-.00134	.00035	-.00003	.69757	.09432	.08174
5.020	10.000	.15165	.06573	.00492	-.01200	-.00113	.00021	-.00006	.67906	.13793	.09107
5.020	12.000	.20258	.06412	.00496	-.01094	-.00158	.00015	-.00007	.66980	.18483	.10484
5.020	14.000	.25867	.06287	.00495	-.01038	-.00162	.00010	-.00012	.66470	.23577	.12358
5.020	16.000	.31846	.06182	.00492	-.01010	-.00209	.00011	-.00026	.66161	.28908	.14720
5.020	18.000	.38240	.06123	.00490	-.00979	-.00197	-.00003	-.00033	.65936	.34477	.17640
5.020	20.000	.45050	.06059	.00492	-.00995	-.00193	-.00010	-.00037	.65807	.40261	.21102
5.020	22.000	.52184	.06064	.00498	-.01031	-.00252	-.00003	-.00046	.65721	.46112	.25171
5.020	24.000	.59637	.06084	.00506	-.01148	-.00298	.00004	-.00049	.65702	.52007	.29814
5.020	26.000	.67714	.06099	.00513	-.01367	-.00287	-.00000	-.00053	.65737	.58187	.35166
	GRADIENT	.01877	-.00149	.00003	.00143	-.00003	-.00004	-.00000	.04494	.01746	-.00112

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 10

0A115 B26 C9 E43 F8 R5 V8 W116

(RTV009) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 18/ 0 RN/L = 2.54 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-3.013	.49952	.06084	.00528	-.01151	.02262	.00424	.00421	.65842	.44383	.23710
5.020	-2.009	.49903	.06063	.00531	-.01073	.01359	.00323	.00247	.65785	.44329	.23708
5.020	-1.007	.49780	.06071	.00522	-.01008	.00521	.00183	.00084	.65739	.44219	.23655
5.020	.002	.49602	.05995	.00510	-.00990	-.00234	-.00010	-.00041	.65728	.44074	.23533
5.020	1.011	.49823	.06070	.00516	-.01003	-.00966	-.00196	-.00165	.65735	.44260	.23670
5.020	2.016	.49684	.06017	.00520	-.01026	-.01800	-.00343	-.00306	.65754	.44148	.23571
5.020	3.030	.50133	.06046	.00521	-.01123	-.02755	-.00440	-.00487	.65818	.44549	.23775
	GRADIENT	.00005	-.00005	-.00001	.00006	-.00811	-.00153	-.00145	-.00005	.00006	-.00002

0A115 B26 C9 E43 F8 M7 N28 R5 V8 W116

(RTV010) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 95/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 8.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.000	-.10841	.13942	.02604	.02643	-.00002	.00029	-.00045	.73964	-.10347	.14312
2.000	.000	-.03052	.13736	.02693	.01739	.00087	.00013	-.00059	.85953	-.03052	.13736
2.000	2.000	.04843	.13433	.02693	.00690	.00137	.00013	-.00061	.59752	.04371	.13594
2.000	4.000	.12392	.13139	.02693	-.00240	.00132	.00023	-.00072	.65706	.11446	.13971
2.000	6.000	.19895	.12703	.02654	-.01012	.00168	.00032	-.00086	.66865	.18458	.14713
2.000	8.000	.27279	.12364	.02620	-.01555	.00220	.00039	-.00094	.67091	.25292	.16040
2.000	10.000	.34682	.11994	.02696	-.01897	.00278	.00007	-.00124	.67006	.32073	.17834
2.000	12.000	.43076	.11706	.02777	-.02367	.00279	.00020	-.00084	.67016	.39701	.20406
2.000	14.000	.51449	.11376	.02940	-.02865	.00254	.00027	-.00071	.67043	.47169	.23485
2.000	16.000	.59960	.11138	.03091	-.03423	.00263	.00022	-.00085	.67094	.54567	.27234
2.000	18.000	.68403	.10739	.03247	-.04274	.00215	.00031	-.00107	.67293	.61737	.31351
2.000	20.000	.76366	.10290	.03404	-.05100	.00156	.00039	-.00124	.67451	.68241	.35788
2.000	22.000	.85489	.10029	.03463	-.05740	.00068	.00075	-.00129	.67464	.75507	.41323
2.000	24.000	.94134	.09666	.03516	-.06407	.00046	.00077	-.00140	.67498	.82054	.47119
2.000	26.000	1.03450	.09277	.03550	-.07028	.00375	-.00084	-.00183	.67493	.88910	.53586
2.000	27.000	1.08420	.08935	.03555	-.07148	.00328	-.00074	-.00221	.67465	.90762	.56274
	GRADIENT	.03846	-.00154	.00005	-.00464	.00019	.00001	-.00005	-.01722	.03605	.00052

DATE 10 JUL 75

TABULATED SOURCE DATA - OA115

PAGE 11

OA115 B26 C9 E43 F8 M7 N28 R5 V8 W116

(RTV010) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 83/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.10048	.09807	.00925	-.01384	-.00109	.00063	-.00005	.59924	-.09699	.10152
4.020	.000	-.05779	.09400	.00949	-.01245	-.00147	.00065	-.00014	.57067	-.05779	.09400
4.020	2.000	-.01311	.09079	.00958	-.01097	-.00154	.00062	-.00017	.34210	-.01627	.09028
4.020	4.000	.03270	.08748	.00962	-.00927	-.00152	.00056	-.00024	.75420	.02652	.08955
4.020	6.000	.08064	.08425	.00974	-.00832	-.00167	.00051	-.00023	.68790	.07139	.09221
4.020	8.000	.13108	.08118	.00995	-.00802	-.00164	.00048	-.00028	.67245	.11850	.09863
4.020	10.000	.18528	.07841	.01003	-.00872	-.00193	.00039	-.00027	.66725	.16885	.10940
4.020	12.000	.24299	.07624	.01000	-.00963	-.00194	.00024	-.00034	.66453	.22183	.12509
4.020	14.000	.30515	.07413	.00992	-.01157	-.00208	.00020	-.00041	.66388	.27815	.14575
4.020	16.000	.36999	.07232	.00987	-.01427	-.00228	.00011	-.00050	.66413	.33572	.17150
4.020	18.000	.43853	.07085	.00985	-.01719	-.00225	-.00001	-.00055	.66436	.39518	.20289
4.020	20.000	.51026	.06928	.00990	-.02013	-.00244	-.00018	-.00057	.66445	.45580	.23963
4.020	22.000	.58500	.06797	.00998	-.02277	-.00264	-.00026	-.00067	.66426	.51694	.28216
4.020	24.000	.66336	.06728	.01007	-.02551	-.00283	-.00032	-.00070	.66408	.57854	.33128
4.020	26.000	.74521	.06622	.01021	-.02895	-.00306	-.00037	-.00075	.66423	.64076	.38620
4.020	27.000	.78909	.06577	.01030	-.03091	-.00391	-.00026	-.00079	.66435	.67323	.41685
	GRADIENT	.02264	-.00171	.00005	.00071	-.00006	-.00002	-.00002	.01804	.02105	-.00115

RUN NO. 19/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.09470	.08870	.00596	-.01909	-.00074	.00067	.00011	.57574	-.09154	.09195
5.020	.000	-.05664	.08362	.00598	-.01729	-.00131	.00070	.00009	.53760	-.05664	.08362
5.020	2.000	-.01867	.07998	.00608	-.01557	-.00093	.00046	.00014	.34306	-.02145	.07928
5.020	4.000	.02038	.07655	.00619	-.01371	-.00101	.00036	.00010	.89745	.01499	.07779
5.020	6.000	.06195	.07292	.00621	-.01236	-.00122	.00035	.00005	.72334	.05398	.07900
5.020	8.000	.10643	.06978	.00621	-.01109	-.00153	.00035	.00000	.68829	.09558	.08391
5.020	10.000	.15459	.06761	.00625	-.01072	-.00180	.00033	-.00007	.67545	.14051	.09343
5.020	12.000	.20602	.06566	.00629	-.01026	-.00202	.00027	-.00011	.66826	.18787	.10706
5.020	14.000	.26249	.06434	.00627	-.00999	-.00228	.00021	-.00016	.66395	.23913	.12593
5.020	16.000	.32216	.06327	.00624	-.00950	-.00204	.00005	-.00023	.66079	.29224	.14962
5.020	18.000	.38697	.06253	.00622	-.00938	-.00235	.00002	-.00033	.65886	.34861	.17902
5.020	20.000	.45499	.06178	.00624	-.00976	-.00238	-.00008	-.00035	.65783	.40641	.21367
5.020	22.000	.52600	.06160	.00632	-.00978	-.00290	.00001	-.00048	.65678	.46462	.25416
5.020	24.000	.59987	.06158	.00643	-.01089	-.00316	.00002	-.00053	.65662	.52296	.30025
5.020	26.000	.67947	.06097	.00651	-.01304	-.00338	.00007	-.00056	.65700	.58398	.35266
	GRADIENT	.01952	-.00193	.00004	.00085	-.00003	-.00005	-.00001	.03275	.01813	-.00159

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 12

0A115 826 C9 E43 F8 M7 N28 R5 V8 H116

(RTV011) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 20/ 0 RN/L = 2.54 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-3.004	.49767	.06156	.00660	-.01062	.02454	.00344	.00450	.65779	.44183	.23719
5.020	-2.003	.49729	.06140	.00659	-.01007	.01467	.00275	.00259	.65739	.44150	.23696
5.020	-1.005	.49915	.06165	.00651	-.00975	.00571	.00169	.00093	.65713	.44316	.23784
5.020	.001	.49881	.06091	.00641	-.00943	-.00248	.00002	.00040	.65690	.44303	.23716
5.020	1.001	.49909	.06122	.00648	-.00911	-.01009	-.00172	-.00156	.65665	.44320	.23751
5.020	2.011	.50080	.06133	.00657	-.00941	-.01950	-.00278	-.00325	.65686	.44468	.23837
5.020	3.020	.50198	.06138	.00658	-.01000	-.02951	-.00349	-.00503	.65727	.44581	.23877
	GRADIENT	.00071	-.00004	-.00000	.00014	-.00876	-.00125	-.00152	-.00011	.00065	.00026

0A115 826 C9 E43 F8 M16 N28 R5 V8 H116

(RTV012) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = -10.000

RUN NO. 102/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.000	-.11575	.14798	.02326	.03627	-.01623	.01007	-.00624	.76521	-.11052	.15193
2.000	.000	-.03799	.14478	.02326	.02621	-.01598	.00992	-.00611	.90379	-.03799	.14478
2.000	2.000	.04029	.13995	.02363	.01563	-.01519	.00965	-.00601	.50724	.03538	.14127
2.000	4.000	.11612	.13774	.02399	.00634	-.01395	.00931	-.00596	.62984	.10623	.14551
2.000	6.000	.19168	.13406	.02392	-.00213	-.01339	.00917	-.00590	.65404	.17662	.15337
2.000	8.000	.26473	.13109	.02376	-.00733	-.01240	.00891	-.00581	.66013	.24391	.16666
2.000	10.000	.33646	.12598	.02389	-.01114	-.01063	.00818	-.00583	.66212	.30947	.18249
2.000	12.000	.41677	.12167	.02405	-.01555	-.01043	.00806	-.00544	.66367	.38237	.20567
2.000	14.000	.50246	.11826	.02504	-.02027	-.01042	.00810	-.00523	.66478	.45893	.23631
2.000	16.000	.59186	.11787	.02588	-.02586	-.01059	.00817	-.00520	.66602	.53644	.27645
2.000	18.000	.66712	.11329	.02713	-.03183	-.01113	.00832	-.00532	.66750	.59946	.31390
2.000	20.000	.75447	.11118	.02823	-.03909	-.01140	.00848	-.00545	.66900	.67094	.36251
2.000	22.000	.84520	.10868	.02964	-.04648	-.01233	.00874	-.00557	.67017	.74294	.41738
2.000	24.000	.93773	.10485	.03084	-.05372	-.01262	.00879	-.00568	.67102	.81401	.47719
2.000	26.000	1.01840	.09866	.03116	-.05844	-.01262	.00852	-.00509	.67105	.87206	.53511
2.000	28.000	1.05940	.09653	.03126	-.06031	-.01257	.00830	-.00485	.67088	.90009	.56696
	GRADIENT	.03845	-.00174	.00010	-.00483	.00339	-.00012	.00004	-.02481	.03592	.00018

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 13

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV012) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = -10.000

RUN NO. 84/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.10734	.10608	.00864	-.00634	-.01288	.00753	-.00382	.62821	-.10357	.10978
4.020	.000	-.06321	.10068	.00886	-.00567	-.01196	.00688	-.00355	.61696	-.06321	.10068
4.020	2.000	-.01811	.09690	.00894	-.00479	-.01142	.00649	-.00339	.55258	-.02148	.09620
4.020	4.000	.02831	.09291	.00898	-.00374	-.01132	.00639	-.00336	.69859	.02176	.09466
4.020	6.000	.07750	.08867	.00909	-.00350	-.01122	.00624	-.00326	.66657	.06781	.09629
4.020	8.000	.12792	.08644	.00929	-.00297	-.01154	.00634	-.00336	.65848	.11465	.10340
4.020	10.000	.18191	.08373	.00937	-.00375	-.01106	.00592	-.00323	.65752	.16461	.11405
4.020	12.000	.23952	.08178	.00934	-.00491	-.01042	.00548	-.00310	.65748	.21729	.12979
4.020	14.000	.30199	.07935	.00926	-.00682	-.00991	.00497	-.00299	.65825	.27382	.15005
4.020	16.000	.36713	.07699	.00921	-.01001	-.00880	.00421	-.00277	.65997	.33168	.17520
4.020	18.000	.43529	.07511	.00920	-.01281	-.00811	.00360	-.00258	.66077	.39077	.20594
4.020	20.000	.50758	.07273	.00924	-.01625	-.00744	.00304	-.00236	.66172	.45210	.24194
4.020	22.000	.58240	.07125	.00932	-.01932	-.00672	.00241	-.00212	.66215	.51330	.28424
4.020	24.000	.66072	.06998	.00941	-.02276	-.00625	.00194	-.00196	.66261	.57513	.33267
4.020	26.000	.74309	.06817	.00954	-.02748	-.00569	.00140	-.00174	.66354	.63800	.38702
4.020	27.000	.78675	.06803	.00962	-.02995	-.00501	.00105	-.00159	.66395	.67011	.41779
	GRADIENT	.02306	-.00213	.00005	.00038	.00020	-.00015	.00007	.00792	.02139	-.00165

RUN NO. 21/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.10075	.09594	.00556	-.01174	-.00957	.00632	-.00325	.60708	-.09734	.09940
5.020	.000	-.06247	.08976	.00558	-.01114	-.00845	.00564	-.00292	.58432	-.06247	.08976
5.020	2.000	-.02469	.08515	.00568	-.01009	-.00793	.00513	-.00259	.49957	-.02765	.08423
5.020	4.000	.01523	.08069	.00578	-.00888	-.00783	.00490	-.00247	.86449	.00956	.08156
5.020	6.000	.05768	.07645	.00580	-.00809	-.00784	.00484	-.00243	.70153	.04937	.08206
5.020	8.000	.10280	.07365	.00580	-.00746	-.00785	.00468	-.00244	.67665	.09155	.08724
5.020	10.000	.15080	.07145	.00583	-.00753	-.00719	.00422	-.00229	.66832	.13610	.09656
5.020	12.000	.20297	.06913	.00587	-.00784	-.00631	.00355	-.00202	.66415	.18417	.10982
5.020	14.000	.25878	.06770	.00586	-.00705	-.00609	.00320	-.00190	.65997	.23472	.12830
5.020	16.000	.31836	.06647	.00582	-.00688	-.00528	.00260	-.00167	.65789	.28771	.15165
5.020	18.000	.38183	.06579	.00581	-.00647	-.00515	.00215	-.00156	.65617	.34281	.18056
5.020	20.000	.44967	.06498	.00582	-.00640	-.00438	.00172	-.00143	.65518	.40033	.21486
5.020	22.000	.52108	.06413	.00590	-.00703	-.00387	.00131	-.00128	.65490	.45912	.25467
5.020	24.000	.59507	.06289	.00600	-.00926	-.00362	.00103	-.00113	.65566	.51804	.29949
5.020	26.000	.67602	.06223	.00607	-.01209	-.00334	.00083	-.00104	.65652	.58033	.35228
	GRADIENT	.01973	-.00240	.00003	.00048	.00020	-.00019	.00010	.02345	.01827	-.00214

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 14

0A115 828 C9 E43 F8 M16 N28 R5 V8 W116

(RTV013) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = -10.000

RUN NO. 22/ 0 RN/L = 2.54 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-3.018	.49495	.06360	.00614	-.00934	.02391	.00449	.00351	.65688	.43849	.23821
5.020	-2.017	.49412	.06378	.00609	-.00766	.01401	.00394	.00162	.65564	.43755	.23827
5.020	-1.005	.49276	.06407	.00602	-.00667	.00432	.00305	-.00010	.65492	.43629	.23785
5.020	-.003	.49269	.06371	.00591	-.00670	-.00382	.00144	-.00132	.65494	.43630	.23758
5.020	1.005	.49419	.06315	.00597	-.00764	-.01132	-.00034	-.00242	.65563	.43787	.23767
5.020	2.017	.50047	.06319	.00604	-.00845	-.02081	-.00167	-.00386	.65615	.44363	.24011
5.020	3.012	.50068	.06403	.00610	-.00828	-.03061	-.00234	-.00560	.65602	.44365	.24074
	GRADIENT	.00111	-.00003	-.00001	.00002	-.00884	-.00125	-.00144	-.00003	.00104	.00039

0A115 828 C9 E43 F8 M16 N28 R5 V8 W116

(RTV014) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 65.000 RUDDER = -10.000

RUN NO. 103/ 0 RN/L = 2.35 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.000	-.13528	.17412	.02656	.07157	.00045	-.00004	-.00042	.84463	-.12910	.17874
2.000	.000	-.05636	.17059	.02703	.06034	.00085	-.00002	-.00043	1.04380	-.05636	.17059
2.000	2.000	.02302	.16625	.02700	.04912	.00126	-.00000	-.00055	-.13527	.01720	.16696
2.000	4.000	.09997	.16271	.02697	.03859	.00133	.00010	-.00066	.50791	.08838	.16929
2.000	6.000	.17442	.15694	.02700	.02908	.00157	.00020	-.00079	.58858	.15706	.17431
2.000	8.000	.24821	.15302	.02703	.02258	.00173	.00027	-.00102	.61646	.22449	.18607
2.000	10.000	.32394	.14893	.02744	.01776	.00275	-.00008	-.00135	.62976	.29316	.20292
2.000	12.000	.40305	.14356	.02794	.01254	.00254	.00006	-.00099	.63849	.36439	.22422
2.000	14.000	.49092	.14063	.02880	.00725	.00259	.00014	-.00089	.64450	.44231	.25522
2.000	16.000	.57395	.13582	.02969	.00000	.00246	.00022	-.00085	.64994	.51428	.28876
2.000	18.000	.66053	.13096	.03055	-.00869	.00178	.00041	-.00111	.65478	.58773	.32867
2.000	20.000	.74774	.12803	.03136	-.01816	.00182	.00035	-.00120	.65789	.65886	.37605
2.000	22.000	.83160	.12294	.03110	-.02458	.00088	.00061	-.00124	.66081	.72499	.42551
2.000	24.000	.92002	.11735	.03071	-.03274	.00028	.00078	-.00140	.66303	.79275	.48141
2.000	26.000	1.00790	.11055	.03207	-.03885	-.00003	.00075	-.00131	.66412	.85743	.54120
2.000	27.000	1.05130	.10818	.03340	-.04072	-.00001	.00068	-.00146	.66419	.88762	.57368
	GRADIENT	.03878	-.00211	.00004	-.00534	.00014	.00003	-.00005	-.05240	.03585	-.00051

DATE 10 JUL 78

TABULATED SOURCE DATA - 0A115

PAGE 15

0A115 826 C9 E43 F8 M18 N28 R5 V8 W118

(RTV014) (10 JUL 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BDFLAP = .000
 SPDGRK = 85.000 RUDDER = -10.000

RUN NO. 85/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.11818	.12190	.00864	.01633	-.01200	.00688	-.00345	.70078	-.11385	.12595
4.020	.000	-.07400	.11570	.00886	.01545	-.01098	.00627	-.00317	.72677	-.07400	.11570
4.020	2.000	-.02863	.11175	.00894	.01572	-.01033	.00585	-.00294	.85198	-.03251	.11068
4.020	4.000	.01763	.10798	.00898	.01705	-.01043	.00584	-.00295	.29400	.01005	.10895
4.020	6.000	.06686	.10358	.00909	.01733	-.01052	.00587	-.00293	.55459	.05567	.11001
4.020	8.000	.11748	.10124	.00929	.01777	-.01073	.00589	-.00294	.59428	.10225	.11661
4.020	10.000	.17225	.09730	.00937	.01547	-.00991	.00537	-.00286	.61690	.15273	.12574
4.020	12.000	.23061	.09374	.00934	.01237	-.00888	.00463	-.00266	.63019	.20608	.13963
4.020	14.000	.29436	.08977	.00926	.00816	-.00787	.00390	-.00248	.63974	.26390	.15831
4.020	16.000	.36039	.08561	.00921	.00289	-.00747	.00333	-.00233	.64699	.32283	.18163
4.020	18.000	.43027	.08229	.00920	-.00203	-.00669	.00277	-.00214	.65168	.38379	.21122
4.020	20.000	.50259	.07921	.00924	-.00646	-.00582	.00212	-.00191	.65467	.44519	.24633
4.020	22.000	.57822	.07671	.00932	-.01089	-.00560	.00179	-.00174	.65687	.50738	.28773
4.020	24.000	.65694	.07425	.00941	-.01607	-.00532	.00137	-.00162	.65894	.56994	.33503
4.020	26.000	.74076	.07133	.00954	-.02232	-.00507	.00101	-.00153	.66103	.63452	.38884
4.020	27.000	.78500	.07044	.00962	-.02512	-.00485	.00087	-.00148	.66171	.66746	.41914
GRADIENT		.02309	-.00222	.00005	.00018	.00017	-.00012	.00006	-.03626	.02115	-.00193

RUN NO. 23/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11196	.10905	.00558	.00669	-.01052	.00645	-.00323	.67193	-.10808	.11289
5.020	.000	-.07189	.10179	.00558	.00593	-.00972	.00585	-.00287	.68031	-.07189	.10179
5.020	2.000	-.03313	.09702	.00568	.00629	-.00914	.00546	-.00260	.71984	-.03650	.09580
5.020	4.000	.00574	.09296	.00578	.00783	-.00923	.00543	-.00256	.14860	-.00076	.09313
5.020	6.000	.04826	.08865	.00580	.00908	-.00944	.00548	-.00258	.58070	.03873	.09321
5.020	8.000	.09351	.08550	.00580	.00981	-.00937	.00525	-.00253	.61133	.08070	.09768
5.020	10.000	.14232	.08179	.00583	.00794	-.00863	.00475	-.00243	.62941	.12596	.10526
5.020	12.000	.19626	.07712	.00587	.00459	-.00769	.00390	-.00211	.64132	.17594	.11624
5.020	14.000	.25303	.07416	.00586	.00337	-.00677	.00324	-.00189	.64504	.22757	.13318
5.020	16.000	.31360	.07126	.00592	.00115	-.00585	.00246	-.00158	.64859	.28181	.15493
5.020	18.000	.37764	.06963	.00581	.00027	-.00499	.00182	-.00136	.64968	.33764	.18292
5.020	20.000	.44590	.06845	.00582	-.00042	-.00455	.00144	-.00118	.65029	.39560	.21683
5.020	22.000	.51793	.06649	.00590	-.00269	-.00416	.00108	-.00109	.65185	.45530	.25567
5.020	24.000	.59375	.06493	.00600	-.00552	-.00434	.00104	-.00107	.65336	.51601	.30082
5.020	26.000	.67362	.06398	.00607	-.00909	-.00431	.00095	-.00104	.65490	.57740	.35280
GRADIENT		.01990	-.00248	.00003	.00033	.00013	-.00012	.00008	-.03571	.01824	-.00240

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 18

0A115 B26 C9 E43 F8 M16 N28 R5 V8 M116

(RTV015) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 85.000 RUDDER = -10.000

RUN NO. 105/ 0 RN/L = 2.33 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-3.103	.02104	.11691	.02898	-.02737	.02974	.01221	.00123	.66220	.71959	.41226
2.000	-2.070	.02293	.11917	.03097	-.02675	.01996	.00869	-.00004	.66190	.72024	.41553
2.000	-1.034	.02456	.12188	.03182	-.02456	.01116	.00435	-.00068	.66090	.72093	.41835
2.000	-.001	.03080	.12304	.03227	-.02329	.00125	.00053	-.00120	.66025	.72622	.42186
2.000	1.041	.03018	.12211	.03226	-.02398	-.00878	-.00353	-.00210	.66057	.72593	.42088
.000	2.069	.02828	.12050	.03195	-.02554	-.01877	-.00709	-.00297	.66128	.72474	.41872
.000	3.097	.03436	.11944	.03217	-.02645	-.02881	-.01086	-.00415	.66160	.73094	.41970
	GRADIENT	.00194	.00036	.00041	.00020	-.00943	-.00375	-.00081	-.00012	.00166	.00108

RUN NO. 24/ 0 RN/L = 2.54 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.017	.49111	.06686	.00605	-.00246	.01286	.00410	.00161	.65178	.43362	.24006
5.020	-1.014	.49122	.06715	.00596	-.00147	.00385	.00299	.00003	.65104	.43354	.24051
5.020	-.003	.49259	.06713	.00590	-.00198	-.00421	.00116	-.00110	.65142	.43495	.24078
5.020	1.009	.49573	.06545	.00597	-.00447	-.01057	-.00138	-.00182	.65326	.43835	.24058
5.020	2.012	.49653	.06566	.00604	-.00458	-.02068	-.00216	-.00351	.65333	.43917	.24081
5.020	3.012	.49752	.06703	.00614	-.00385	-.03127	-.00238	-.00555	.65279	.43953	.24237
	GRADIENT	.00145	-.00015	.00002	-.00053	-.00853	-.00143	-.00134	.00039	.00143	.00035

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 17

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(RTV016) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -2.000
 ELV-LI = -2.000 ELV-RI = 2.000
 ELV-RO = 2.000 BDFLAP = .000
 SPOBRK = 85.000 RUDDER = .000

RUN NO. 25/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11212	.10867	.00556	.00556	.00008	.00055	-.00040	.66820	-.10826	.11252
5.020	.000	-.07222	.10118	.00558	.00442	.00034	.00049	-.00036	.67246	-.07222	.10118
5.020	2.000	-.03293	.09592	.00568	.00433	.00008	.00039	-.00027	.69837	-.03625	.09471
5.020	4.000	.00667	.09128	.00578	.00530	-.00020	.00036	-.00034	.35794	.00029	.09153
5.020	6.000	.04956	.08736	.00580	.00633	-.00050	.00037	-.00041	.60292	.04016	.09207
5.020	8.000	.09448	.08448	.00580	.00736	-.00101	.00041	-.00055	.62128	.08180	.09681
5.020	10.000	.14360	.08072	.00583	.00545	-.00147	.00058	-.00081	.63596	.12740	.10443
5.020	12.000	.19697	.07688	.00587	.00311	-.00196	.00063	-.00099	.64413	.17668	.11615
5.020	14.000	.25357	.07403	.00586	.00202	-.00224	.00063	-.00115	.64700	.22813	.13317
5.020	16.000	.31397	.07153	.00582	.00017	-.00227	.00056	-.00137	.64974	.28210	.15530
5.020	18.000	.37897	.07000	.00581	-.00058	-.00223	.00044	-.00157	.65050	.33879	.18368
5.020	20.000	.44680	.06867	.00582	-.00149	-.00281	.00058	-.00181	.65117	.39637	.21735
5.020	22.000	.51849	.06700	.00590	-.00349	-.00303	.00060	-.00204	.65241	.45563	.25635
5.020	24.000	.59412	.06517	.00600	-.00640	-.00344	.00073	-.00226	.65390	.51624	.30119
5.020	26.000	.67516	.06418	.00607	-.00952	-.00353	.00072	-.00241	.65512	.57869	.35366
	GRADIENT	.02011	-.00263	.00003	.00012	-.00009	-.00002	.00000	-.02225	.01847	-.00253

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 18

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(RTV017) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -5.000
 ELV-LI = -5.000 ELV-RI = 5.000
 ELV-RO = 5.000 BDFLAP = .000
 SPDGRK = 85.000 RUDDER = .000

RUN NO. 26/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11292	.10890	.00558	.00535	.00001	.00045	-.00105	.66737	-.10905	.11278
5.020	.000	-.07221	.10129	.00558	.00428	-.00038	.00049	-.00095	.67176	-.07221	.10129
5.020	2.000	-.03273	.09619	.00568	.00403	-.00065	.00045	-.00085	.69529	-.03606	.09499
5.020	4.000	.00755	.09150	.00578	.00493	-.00058	.00038	-.00095	.40980	.00115	.09180
5.020	6.000	.05015	.08750	.00580	.00573	-.00101	.00046	-.00113	.60791	.04073	.09226
5.020	8.000	.09553	.08463	.00580	.00667	-.00145	.00049	-.00138	.62425	.08283	.09710
5.020	10.000	.14490	.08126	.00583	.00472	-.00199	.00069	-.00177	.63796	.12859	.10519
5.020	12.000	.19828	.07722	.00597	.00219	-.00230	.00072	-.00206	.64588	.17790	.11676
5.020	14.000	.25566	.07466	.00586	.00105	-.00288	.00085	-.00244	.64843	.23001	.13430
5.020	16.000	.31608	.07209	.00582	-.00090	-.00291	.00084	-.00283	.65099	.28396	.15642
5.020	18.000	.38071	.07048	.00581	-.00184	-.00329	.00084	-.00321	.65171	.34029	.18468
5.020	20.000	.44968	.06924	.00582	-.00280	-.00341	.00095	-.00363	.65223	.39888	.21887
5.020	22.000	.52090	.06773	.00590	-.00492	-.00374	.00105	-.00405	.65341	.45760	.25793
5.020	24.000	.59749	.06599	.00600	-.00789	-.00423	.00125	-.00447	.65480	.51899	.30331
5.020	26.000	.67888	.06514	.00607	-.01119	-.00436	.00131	-.00485	.65600	.58162	.35615
	GRADIENT	.02030	-.00263	.00003	.00007	-.00011	-.00000	-.00001	-.01904	.01865	-.00253

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 19

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(RTV018) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -10.000
 ELV-LI = -10.000 ELV-RI = 10.000
 ELV-RO = 10.000 BDFLAP = .000
 SPDBRK = 85.000 RUDDER = .000

RUN NO. 27/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11225	.10950	.00556	.00597	.00078	.00035	-.00262	.66950	-.10836	.11335
5.020	.000	-.07130	.10201	.00558	.00419	.00040	.00049	-.00247	.67159	-.07130	.10201
5.020	2.000	-.03073	.09697	.00568	.00329	.00065	.00042	-.00242	.68934	-.03410	.09584
5.020	4.000	.01002	.09257	.00578	.00344	.00003	.00058	-.00261	.52357	.00354	.09304
5.020	6.000	.05394	.08952	.00580	.00365	-.00026	.00072	-.00296	.62503	.04440	.09367
5.020	8.000	.09994	.08609	.00580	.00411	-.00070	.00085	-.00348	.63482	.08698	.09916
5.020	10.000	.14948	.08265	.00583	.00155	-.00172	.00126	-.00419	.64613	.13286	.10736
5.020	12.000	.20396	.07902	.00587	-.00157	-.00241	.00152	-.00492	.65276	.18307	.11970
5.020	14.000	.26194	.07685	.00586	-.00345	-.00258	.00167	-.00569	.65478	.23557	.13793
5.020	16.000	.32325	.07447	.00582	-.00614	-.00294	.00186	-.00651	.65692	.29021	.16069
5.020	18.000	.38902	.07353	.00581	-.00771	-.00377	.00212	-.00736	.65723	.34725	.19015
5.020	20.000	.45783	.07243	.00582	-.00946	-.00397	.00237	-.00822	.65754	.40544	.22465
5.020	22.000	.53007	.07128	.00590	-.01181	-.00425	.00253	-.00903	.65813	.46477	.26466
5.020	24.000	.60667	.07000	.00600	-.01572	-.00490	.00301	-.01001	.65947	.52575	.31071
5.020	26.000	.68692	.06961	.00607	-.01994	-.00503	.00326	-.01089	.66062	.58689	.36369
	GRADIENT	.02069	-.00257	.00003	-.00027	-.00012	.00004	-.00004	-.01185	.01902	-.00242

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(RTV019) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = -10.000
 ELV-LI = -10.000 ELV-RI = 10.000
 ELV-RO = 10.000 BDFLAP = .000
 SPDBRK = 85.000 RUDDER = .000

RUN NO. 28/ 0 RN/L = 2.54 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-3.021	.50352	.07077	.00616	-.01210	.02365	.00559	-.00399	.65878	.44384	.24809
5.020	-2.018	.50268	.07065	.00609	-.01140	.01316	.00535	-.00604	.65828	.44313	.24762
5.020	-1.015	.50320	.07082	.00601	-.01081	.00374	.00435	-.00764	.65770	.44346	.24813
5.020	-.006	.50279	.07107	.00598	-.01062	-.00379	.00238	-.00865	.65771	.44304	.24811
5.020	1.001	.50618	.07123	.00597	-.01188	-.01054	.00017	-.00965	.65858	.44623	.24934
5.020	2.006	.50888	.07097	.00605	-.01351	-.01964	-.00112	-.01107	.65970	.44879	.25016
5.020	3.011	.51117	.07129	.00609	-.01433	-.03035	-.00128	-.01317	.66025	.45081	.25130
	GRADIENT	.00136	.00009	-.00001	-.00043	-.00859	-.00134	-.00141	.00029	.00124	.00057

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 20

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(RTV020) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 20.000
 ELV-L1 = 20.000 ELV-R1 = 20.000
 ELV-R0 = 20.000 BDFLAP = .000
 SPDGRK = 55085.000 RUDDER = .000

RUN NO. 97/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.000	-.04386	.16566	.02326	-.02441	-.00002	.00032	-.00069	.44513	-.03805	.16709
2.000	.000	.03383	.16323	.02326	-.03457	.00059	.00018	-.00079	1.02600	.03383	.16323
2.000	2.000	.11263	.16118	.02363	-.04531	.00043	.00052	-.00110	.79797	.10693	.16501
2.000	4.000	.18844	.15882	.02399	-.05533	.00088	.00066	-.00146	.75798	.17690	.17157
2.000	6.000	.26352	.15675	.02392	-.06427	.00107	.00084	-.00164	.73967	.24569	.18343
2.000	8.000	.34087	.15648	.02376	-.07249	.00132	.00090	-.00180	.72818	.31577	.20240
2.000	10.000	.42104	.15449	.02389	-.08028	.00170	.00091	-.00172	.72009	.38782	.22525
2.000	12.000	.50803	.15374	.02405	-.08881	.00141	.00113	-.00168	.71426	.46496	.25601
2.000	14.000	.59644	.15167	.02504	-.09716	.00128	.00124	-.00142	.70988	.54203	.29145
2.000	16.000	.68190	.14849	.02588	-.10550	.00095	.00133	-.00142	.70687	.61455	.33070
2.000	18.000	.77202	.14738	.02713	-.11550	.00057	.00154	-.00151	.70499	.68869	.37874
2.000	20.000	.87262	.14901	.02823	-.12801	.00045	.00148	-.00156	.70391	.76903	.43948
2.000	22.000	.95927	.14753	.02964	-.13897	-.00010	.00152	-.00157	.70324	.83416	.49614
2.000	24.000	1.04810	.14572	.03084	-.15020	-.00071	.00178	-.00186	.70266	.89825	.55943
2.000	26.000	1.14810	.14147	.03116	-.16372	-.00012	.00141	-.00182	.70241	.95989	.63044
2.000	27.000	1.19920	.14062	.03126	-.16960	-.00035	.00167	-.00184	.70198	1.00450	.66970
	GRADIENT	.03847	-.00111	.00010	-.00502	.00012	.00008	-.00013	.01605	.03553	.00205

RUN NO. 87/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.08281	.10960	.00864	-.02755	-.00130	.00067	-.00010	.52752	-.07893	.11242
4.020	.000	-.03636	.10611	.00886	-.02952	-.00125	.00063	-.00018	.35127	-.03636	.10611
4.020	2.000	.01216	.10403	.00894	-.03166	-.00147	.00066	-.00028	1.60780	.00852	.10439
4.020	4.000	.06300	.10207	.00898	-.03420	-.00152	.00070	-.00034	.84968	.05572	.10622
4.020	6.000	.11656	.09954	.00909	-.03826	-.00172	.00069	-.00038	.77071	.10552	.11118
4.020	8.000	.17266	.09939	.00929	-.04267	-.00226	.00088	-.00057	.74087	.15715	.12245
4.020	10.000	.23238	.09929	.00937	-.04837	-.00232	.00083	-.00062	.72653	.21161	.13813
4.020	12.000	.29610	.10002	.00934	-.05489	-.00245	.00083	-.00072	.71815	.26884	.15940
4.020	14.000	.36470	.10057	.00926	-.06239	-.00276	.00088	-.00089	.71288	.32954	.18582
4.020	16.000	.43704	.10127	.00921	-.07086	-.00274	.00079	-.00096	.70960	.39220	.21781
4.020	18.000	.51222	.10253	.00920	-.07948	-.00285	.00082	-.00109	.70703	.45547	.25580
4.020	20.000	.59173	.10344	.00924	-.08827	-.00277	.00071	-.00119	.70482	.52066	.29959
4.020	22.000	.67438	.10508	.00932	-.09673	-.00310	.00075	-.00132	.70271	.58591	.35006
4.020	24.000	.75960	.10697	.00941	-.10535	-.00351	.00080	-.00141	.70097	.65041	.40668
4.020	26.000	.84831	.10832	.00954	-.11484	-.00363	.00079	-.00145	.69975	.71497	.46924
4.020	27.000	.89616	.10922	.00962	-.12041	-.00332	.00074	-.00142	.69938	.74890	.50417
	GRADIENT	.02490	-.00121	.00005	-.00130	-.00006	.00000	-.00004	.04924	.02305	-.00012

DATE 10 JUL 75

TABULATED SOURCE DATA - OA115

PAGE 21

OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV020) (10 JUL 75)

REFERENCE DATA

SREF = 2800.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 20.000
 ELV-LI = 20.000 ELV-RI = 20.000
 ELV-RO = 20.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 55/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.09573	.11334	.00556	-.00741	-.00059	.00066	-.00011	.62146	-.09172	.11661
5.020	.000	-.05296	.10719	.00558	-.01088	-.00052	.00057	-.00010	.57432	-.05296	.10719
5.020	2.000	-.01009	.10348	.00568	-.01405	-.00062	.00048	-.00003	.13772	-.01370	.10307
5.020	4.000	.03462	.10052	.00578	-.01709	-.00103	.00046	-.00005	.83161	.02752	.10269
5.020	6.000	.08306	.09819	.00580	-.02077	-.00112	.00042	-.00006	.74195	.07235	.10633
5.020	8.000	.13439	.09771	.00580	-.02484	-.00149	.00044	-.00018	.71796	.11948	.11546
5.020	10.000	.18982	.09659	.00583	-.03218	-.00202	.00060	-.00034	.71231	.17016	.12809
5.020	12.000	.25042	.09517	.00587	-.04072	-.00228	.00055	-.00037	.70978	.22516	.14515
5.020	14.000	.31570	.09551	.00586	-.04803	-.00248	.00059	-.00051	.70592	.28321	.16905
5.020	16.000	.38394	.09561	.00582	-.05636	-.00270	.00054	-.00060	.70395	.34271	.19773
5.020	18.000	.45577	.09679	.00581	-.06361	-.00283	.00045	-.00071	.70129	.40355	.23290
5.020	20.000	.53199	.09829	.00582	-.07015	-.00308	.00060	-.00092	.69846	.46629	.27431
5.020	22.000	.61135	.09955	.00590	-.07798	-.00320	.00058	-.00101	.69687	.52954	.32132
5.020	24.000	.69458	.10101	.00600	-.08645	-.00384	.00086	-.00115	.69574	.59344	.37478
5.020	26.000	.78186	.10293	.00607	-.09536	-.00413	.00095	-.00118	.69482	.65761	.43526
	GRADIENT	.02226	-.00185	.00003	-.00165	-.00008	-.00003	.00001	.02491	.02043	-.00125

ORIGINAL PAGE IS
 OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 22

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV021) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = 10.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 56/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.10755	.10957	.00556	.00323	.00007	.00057	-.00015	.66099	-.10366	.11326
5.020	.000	-.06833	.10215	.00558	.00215	-.00008	.00055	-.00021	.66153	-.06833	.10215
5.020	2.000	-.02893	.09703	.00568	.00180	-.00017	.00046	-.00019	.67281	-.03230	.09596
5.020	4.000	.01128	.09272	.00578	.00237	-.00038	.00042	-.00024	.57279	.00479	.09328
5.020	6.000	.05492	.08872	.00580	.00269	-.00065	.00042	-.00029	.63189	.04534	.09398
5.020	8.000	.10073	.08613	.00580	.00311	-.00096	.00042	-.00039	.63858	.08777	.09931
5.020	10.000	.15067	.08294	.00583	.00049	-.00142	.00057	-.00060	.64875	.13398	.10784
5.020	12.000	.20475	.07913	.00587	-.00271	-.00179	.00054	-.00071	.65482	.18382	.11997
5.020	14.000	.26301	.07683	.00586	-.00443	-.00213	.00058	-.00088	.65614	.23661	.13818
5.020	16.000	.32437	.07459	.00582	-.00736	-.00221	.00052	-.00102	.65829	.29124	.16111
5.020	18.000	.39007	.07343	.00581	-.00914	-.00250	.00042	-.00116	.65856	.34828	.19038
5.020	20.000	.45868	.07249	.00582	-.01071	-.00262	.00052	-.00134	.65853	.40623	.22499
5.020	22.000	.53360	.07138	.00590	-.01384	-.00238	.00045	-.00147	.65948	.46801	.26608
5.020	24.000	.61077	.07000	.00600	-.01790	-.00322	.00074	-.00166	.66072	.52949	.31237
5.020	26.000	.69253	.06946	.00607	-.02223	-.00319	.00071	-.00171	.66175	.59199	.36602
	GRADIENT	.02023	-.00256	.00003	-.00004	-.00009	-.00002	-.00002	-.00735	.01856	-.00237

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 23

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV022) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = -10.000 BOFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 101/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.000	-.11553	.14655	.02326	.03466	.00123	.00011	.00423	.76034	-.11034	.15050
2.000	.000	-.03771	.14436	.02326	.02437	.00211	-.00026	.00417	.88775	-.03771	.14436
2.000	2.000	.04133	.14097	.02363	.01360	.00201	-.00041	.00395	.52888	.03639	.14233
2.000	4.000	.11808	.13823	.02399	.00430	.00232	-.00047	.00385	.63654	.10815	.14613
2.000	6.000	.19244	.13376	.02392	-.00416	.00237	-.00051	.00365	.65789	.17741	.15314
2.000	8.000	.26445	.12984	.02376	-.00935	.00305	-.00071	.00343	.66294	.24380	.16538
2.000	10.000	.33993	.12645	.02389	-.01335	.00381	-.00093	.00342	.66438	.31281	.18355
2.000	12.000	.41927	.12154	.02405	-.01799	.00369	-.00104	.00367	.66572	.38484	.20606
2.000	14.000	.50652	.11824	.02504	-.02325	.00328	-.00098	.00382	.66683	.46287	.23727
2.000	16.000	.58982	.11569	.02588	-.02895	.00324	-.00111	.00391	.66800	.53508	.27378
2.000	18.000	.67451	.11278	.02713	-.03609	.00237	-.00093	.00384	.66963	.60664	.31570
2.000	20.000	.76068	.11049	.02823	-.04339	.00223	-.00098	.00401	.67093	.67701	.36400
2.000	22.000	.84821	.10738	.02954	-.05145	.00161	-.00131	.00419	.67226	.74622	.41730
2.000	24.000	.93430	.10270	.03084	-.05851	.00098	-.00125	.00449	.67298	.81176	.47384
2.000	26.000	1.02590	.09684	.03116	-.06521	.00095	-.00167	.00471	.67333	.87963	.53678
2.000	27.000	1.07080	.09509	.03126	-.06614	.00035	-.00141	.00509	.67267	.91088	.57084
	GRADIENT	.03859	-.00159	.00010	-.00489	.00012	-.00007	-.00007	-.02281	.03607	.00035

RUN NO. 89/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.10749	.10407	.00864	-.00742	.00009	.00053	.00218	.62453	-.10379	.10776
4.020	.000	-.06402	.09895	.00886	-.00693	-.00035	.00049	.00205	.61009	-.06402	.09895
4.020	2.000	-.01865	.09510	.00894	-.00634	-.00009	.00031	.00200	.52482	-.02195	.09439
4.020	4.000	.02780	.09121	.00898	-.00552	-.00018	.00022	.00200	.72295	.02137	.09293
4.020	6.000	.07710	.08701	.00909	-.00569	-.00036	.00013	.00215	.67709	.06759	.09460
4.020	8.000	.12821	.08465	.00929	-.00580	-.00071	.00015	.00219	.66658	.11518	.10167
4.020	10.000	.18194	.08223	.00937	-.00678	-.00072	-.00005	.00243	.66366	.16490	.11258
4.020	12.000	.23912	.08028	.00934	-.00814	-.00089	-.00022	.00263	.66246	.21721	.12824
4.020	14.000	.30151	.07813	.00926	-.00987	-.00085	-.00037	.00284	.66198	.27365	.14875
4.020	16.000	.36625	.07611	.00921	-.01277	-.00084	-.00068	.00311	.66277	.33108	.17411
4.020	18.000	.43418	.07449	.00920	-.01544	-.00100	-.00089	.00336	.66302	.38991	.20502
4.020	20.000	.50623	.07252	.00924	-.01848	-.00098	-.00118	.00370	.66337	.45089	.24129
4.020	22.000	.58154	.07136	.00932	-.02124	-.00117	-.00135	.00398	.66337	.51246	.28401
4.020	24.000	.65919	.07016	.00941	-.02427	-.00138	-.00149	.00427	.66348	.57367	.33221
4.020	26.000	.74150	.06863	.00954	-.02831	-.00159	-.00173	.00470	.66399	.63638	.38673
4.020	27.000	.78536	.06790	.00962	-.03098	-.00137	-.00200	.00493	.66445	.66893	.41705
	GRADIENT	.02305	-.00209	.00005	.00024	-.00004	-.00005	-.00001	.01090	.02141	-.00162

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 24

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV022) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = -10.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 57/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11143	.10975	.00556	.00703	-.00021	.00061	.00189	.67317	-.10753	.11357
5.020	.000	-.07167	.10238	.00558	.00580	-.00010	.00048	.00163	.67969	-.07167	.10238
5.020	2.000	-.03211	.09706	.00558	.00563	-.00003	.00030	.00169	.71440	-.03548	.09588
5.020	4.000	.00789	.09250	.00578	.00626	-.00017	.00018	.00175	.35778	.00141	.09283
5.020	6.000	.05093	.08839	.00580	.00700	-.00051	.00014	.00183	.59940	.04141	.09323
5.020	8.000	.09626	.08569	.00580	.00782	-.00083	.00005	.00196	.62006	.08339	.09826
5.020	10.000	.14562	.08214	.00583	.00590	-.00100	.00004	.00206	.63503	.12914	.10618
5.020	12.000	.19908	.07825	.00587	.00347	-.00147	-.00002	.00226	.64353	.17846	.11793
5.020	14.000	.25613	.07564	.00586	.00240	-.00184	-.00015	.00250	.64649	.23022	.13536
5.020	16.000	.31668	.07301	.00582	.00030	-.00158	-.00042	.00279	.64959	.28429	.15747
5.020	18.000	.38127	.07150	.00581	-.00062	-.00166	-.00065	.00308	.65054	.34052	.18582
5.020	20.000	.44935	.07035	.00582	-.00141	-.00191	-.00068	.00333	.65109	.39819	.21980
5.020	22.000	.52248	.06892	.00590	-.00372	-.00182	-.00090	.00365	.65255	.45862	.25963
5.020	24.000	.59879	.06724	.00600	-.00676	-.00221	-.00086	.00399	.65409	.51968	.30497
5.020	26.000	.67948	.06627	.00607	-.01006	-.00239	-.00097	.00439	.65539	.58166	.35742
	GRADIENT	.02021	-.00263	.00003	.00002	-.00003	-.00006	.00000	-.02347	.01855	-.00251

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV023) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = 10.000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = -10.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 58/ 0 RN/L = 2.57 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-3.025	.50042	.06907	.00615	-.00602	.02602	.00243	.00843	.65436	.44144	.24560
5.020	-2.017	.49749	.06861	.00608	-.00459	.01521	.00219	.00625	.65333	.43880	.24424
5.020	-1.014	.49574	.06890	.00606	-.00358	.00586	.00120	.00459	.65259	.43799	.24426
5.020	.004	.49562	.06896	.00600	-.00303	-.00170	-.00082	.00351	.65219	.43702	.24373
5.020	1.019	.49896	.06897	.00599	-.00360	-.00841	-.00320	.00269	.65260	.44007	.24506
5.020	2.030	.50162	.06853	.00603	-.00477	-.01732	-.00449	.00127	.65344	.44262	.24580
5.020	3.039	.50346	.06902	.00611	-.00541	-.02810	-.00471	-.00071	.65389	.44421	.24680
	GRADIENT	.00069	-.00001	-.00001	.00005	-.00853	-.00138	-.00139	-.00004	.00064	.00027

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 25

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(RTV024) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -10.000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = -10.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 59/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11433	.10954	.00556	.01004	-.00062	.00054	.00013	.68224	-.11044	.11346
5.020	.000	-.07539	.10194	.00558	.00798	-.00066	.00049	.00010	.68887	-.07539	.10194
5.020	2.000	-.03599	.09672	.00568	.00778	-.00055	.00035	.00019	.72951	-.03935	.09540
5.020	4.000	.00392	.09200	.00578	.00857	-.00080	.00031	.00018	-.15415	-.00251	.09205
5.020	6.000	.04677	.08767	.00580	.00950	-.00091	.00028	.00019	.57521	.03735	.09207
5.020	8.000	.09161	.08469	.00580	.01054	-.00119	.00024	.00016	.60760	.07893	.09662
5.020	10.000	.14032	.08111	.00583	.00901	-.00163	.00032	.00004	.62630	.12410	.10424
5.020	12.000	.19326	.07710	.00587	.00721	-.00195	.00032	-.00003	.63620	.17300	.11559
5.020	14.000	.24924	.07417	.00586	.00664	-.00215	.00025	-.00007	.64013	.22389	.13226
5.020	16.000	.30881	.07147	.00582	.00536	-.00215	.00013	-.00012	.64355	.27715	.15382
5.020	18.000	.37255	.06988	.00581	.00503	-.00226	-.00002	-.00014	.64497	.33273	.18158
5.020	20.000	.44011	.06852	.00582	.00486	-.00255	.00003	-.00023	.64587	.39013	.21491
5.020	22.000	.51276	.06687	.00590	.00331	-.00261	-.00000	-.00027	.64756	.45038	.25408
5.020	24.000	.58715	.06482	.00600	.00106	-.00307	.00014	-.00034	.64927	.51002	.29803
5.020	26.000	.66711	.06382	.00607	-.00157	-.00284	.00005	-.00034	.65081	.57162	.34980
	GRADIENT	.02008	-.00268	.00003	-.00002	-.00004	-.00004	.00001	-.05285	.01842	-.00263

ORIGINAL PAGE IS
 OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 26

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(RTV025) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-L0 = -10.000
 ELV-L1 = -10.000 ELV-R1 = -10.000
 ELV-R0 = -10.000 BDFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 100/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.000	-.15446	.15169	.02326	.06170	.00090	.00003	.00032	.79690	-.14908	.15699
2.000	.000	-.07476	.14789	.02326	.05060	.00091	.00008	.00012	.89897	-.07476	.14789
2.000	2.000	.00683	.14281	.02363	.03910	.00118	.00017	-.00003	-1.45730	.00184	.14296
2.000	4.000	.08451	.13972	.02399	.02870	.00134	.00017	-.00014	.52498	.07455	.14527
2.000	6.000	.15999	.13452	.02392	.01948	.00141	.00030	-.00021	.60513	.14505	.15051
2.000	8.000	.23343	.12919	.02376	.01306	.00214	.00016	-.00035	.62935	.21318	.16042
2.000	10.000	.31145	.12512	.02389	.00818	.00239	.00007	-.00039	.64028	.28499	.17730
2.000	12.000	.39012	.12061	.02405	.00563	.00276	.00001	-.00028	.64463	.35652	.19909
2.000	14.000	.47259	.11678	.02504	.00269	.00248	.00002	-.00027	.64785	.43030	.22764
2.000	16.000	.55070	.11308	.02588	-.00144	.00220	.00017	-.00013	.65090	.49820	.26048
2.000	18.000	.63416	.10982	.02713	-.00728	.00200	.00028	-.00042	.65415	.56919	.30041
2.000	20.000	.72399	.10750	.02823	-.01402	.00187	.00024	-.00058	.65705	.64356	.34863
2.000	22.000	.80354	.10281	.02964	-.02072	.00115	.00030	-.00068	.65942	.70651	.39633
2.000	24.000	.89665	.09801	.03084	-.02752	.00107	.00019	-.00072	.66123	.77927	.45424
2.000	26.000	.98573	.09212	.03116	-.03260	.00099	-.00001	-.00071	.66211	.84559	.51491
2.000	27.000	1.02530	.08949	.03126	-.03284	.00021	.00020	-.00054	.66172	.87296	.54523
	GRADIENT	.03941	-.00213	.00010	-.00532	.00007	.00003	-.00007	-.03788	.03688	-.00078

RUN NO. 88/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.11790	.10549	.00864	.00043	-.00051	.00056	.00027	.65128	-.11415	.10954
4.020	.000	-.07371	.09980	.00886	.00059	-.00066	.00054	.00021	.65290	-.07371	.09980
4.020	2.000	-.02795	.09577	.00894	.00077	-.00063	.00050	.00021	.66010	-.03127	.09473
4.020	4.000	.01890	.09150	.00898	.00138	-.00069	.00045	.00019	.62298	.01247	.09259
4.020	6.000	.06818	.08674	.00909	.00138	-.00078	.00040	.00015	.64250	.05874	.09339
4.020	8.000	.11757	.08426	.00929	.00221	-.00123	.00051	.00002	.64304	.10470	.09980
4.020	10.000	.17016	.08157	.00937	.00239	-.00128	.00042	.00004	.64477	.15342	.10988
4.020	12.000	.22584	.07953	.00934	.00247	-.00148	.00031	.00002	.64591	.20437	.12475
4.020	14.000	.28652	.07718	.00928	.00195	-.00161	.00028	-.00002	.64744	.25934	.14421
4.020	16.000	.34984	.07494	.00921	.00046	-.00153	.00006	-.00003	.64946	.31563	.16846
4.020	18.000	.41594	.07296	.00920	-.00075	-.00169	-.00002	-.00005	.65060	.37304	.19793
4.020	20.000	.48552	.07091	.00924	-.00196	-.00159	-.00025	-.00003	.65143	.43199	.23269
4.020	22.000	.55882	.06946	.00932	-.00319	-.00187	-.00031	-.00008	.65204	.49210	.27374
4.020	24.000	.63494	.06786	.00941	-.00445	-.00229	-.00033	-.00013	.65252	.55245	.32024
4.020	26.000	.71404	.06577	.00954	-.00650	-.00249	-.00037	-.00011	.65329	.61294	.37212
4.020	27.000	.75611	.06469	.00962	-.00799	-.00215	-.00061	-.00003	.65382	.64433	.40091
	GRADIENT	.02324	-.00229	.00005	.00013	-.00003	-.00002	-.00001	-.00237	.02160	-.00197

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 27

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV025) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -10.000
 ELV-LI = -10.000 ELV-RI = -10.000
 ELV-RO = -10.000 BOFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 60/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11915	.11017	.00556	.01277	-.00017	.00044	.00021	.68937	-.11523	.11426
5.020	.000	-.07878	.10243	.00558	.01046	-.00056	.00048	.00016	.69881	-.07878	.10243
5.020	2.000	-.03865	.09685	.00568	.00986	-.00030	.00033	.00024	.74385	-.04200	.09544
5.020	4.000	.00148	.09232	.00578	.01044	-.00061	.00031	.00025	-1.94300	-.00496	.09220
5.020	6.000	.04421	.08784	.00580	.01154	-.00058	.00021	.00023	.55387	.03478	.09199
5.020	8.000	.08825	.08510	.00580	.01333	-.00099	.00019	.00021	.59438	.07555	.09656
5.020	10.000	.13607	.08131	.00583	.01248	-.00137	.00027	.00011	.61619	.11989	.10371
5.020	12.000	.18815	.07735	.00587	.01138	-.00183	.00032	.00003	.62768	.16795	.11478
5.020	14.000	.24333	.07432	.00586	.01142	-.00188	.00019	.00002	.63268	.21812	.13098
5.020	16.000	.30238	.07187	.00582	.01106	-.00231	.00015	-.00003	.63648	.27086	.15243
5.020	18.000	.36448	.06998	.00581	.01158	-.00222	-.00001	-.00004	.63825	.32502	.17919
5.020	20.000	.43082	.06852	.00582	.01231	-.00251	.00003	-.00009	.63942	.38140	.21174
5.020	22.000	.50196	.06685	.00590	.01191	-.00265	.00001	-.00013	.64121	.44037	.25003
5.020	24.000	.57552	.06460	.00600	.01071	-.00287	.00009	-.00016	.64309	.49949	.29310
5.020	26.000	.65289	.06337	.00607	.00942	-.00285	.00002	-.00014	.64463	.55903	.34316
	GRADIENT	.02035	-.00274	.00003	-.00012	-.00004	-.00003	.00001	-.14564	.01869	-.00274

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 20

0A115 826 C9 E43 F8 M16 N28 R5 V8 M116

(RTV026) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -5.000
 ELV-L1 = -20.000 ELV-R1 = -20.000
 ELV-R0 = -5.000 BDFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 61/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWO	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.12411	.11171	.00556	.01506	.00003	.00048	.00014	.69460	-.12013	.11598
5.020	.000	-.08314	.10344	.00558	.01250	-.00014	.00047	.00012	.70525	-.08314	.10344
5.020	2.000	-.04204	.09757	.00568	.01129	-.00023	.00036	.00020	.74878	-.04542	.09605
5.020	4.000	-.00150	.09259	.00578	.01136	-.00018	.00031	.00023	3.43090	-.00796	.09226
5.020	6.000	.04219	.08786	.00580	.01193	-.00031	.00021	.00021	.54586	.03277	.09179
5.020	8.000	.08629	.08505	.00580	.01354	-.00078	.00020	.00016	.59219	.07361	.09623
5.020	10.000	.13378	.08151	.00583	.01277	-.00110	.00029	.00003	.61482	.11759	.10351
5.020	12.000	.18568	.07746	.00587	.01169	-.00131	.00017	.00002	.62676	.16551	.11437
5.020	14.000	.24140	.07469	.00586	.01192	-.00161	.00017	-.00006	.63176	.21616	.13087
5.020	16.000	.29972	.07200	.00582	.01160	-.00169	.00009	-.00013	.63570	.26827	.15182
5.020	18.000	.36168	.07038	.00581	.01217	-.00200	-.00003	-.00015	.63755	.32223	.17870
5.020	20.000	.42819	.06925	.00582	.01330	-.00213	-.00002	-.00021	.63851	.37868	.21153
5.020	22.000	.49771	.06726	.00590	.01308	-.00240	-.00002	-.00024	.64027	.43627	.24881
5.020	24.000	.57185	.06530	.00600	.01219	-.00276	.00011	-.00033	.64209	.49585	.29225
5.020	26.000	.64894	.06421	.00607	.01110	-.00276	.00003	-.00029	.64364	.55512	.34219
	GRADIENT	.02071	-.00293	.00003	-.00037	-.00004	-.00004	.00001	.12141	.01905	-.00298

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 29

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(RTV027) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -20.000
 ELV-LI = -20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BOFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 98/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.000	-.18765	.16419	.02326	.08235	.00025	.00022	.00045	.81142	-.18180	.17084
2.000	.000	-.10696	.15923	.02326	.07065	-.00070	.00049	.00023	.89298	-.10696	.15923
2.000	2.000	-.02497	.15495	.02363	.05879	-.00015	.00038	.00004	1.51610	-.03037	.15399
2.000	4.000	.05493	.14916	.02399	.04715	.00087	.00040	.00009	.33410	.04439	.15263
2.000	6.000	.13289	.14271	.02392	.03690	.00165	.00025	-.00002	.54778	.11724	.15582
2.000	8.000	.20823	.13841	.02376	.02977	.00184	.00020	-.00013	.59733	.18694	.16605
2.000	10.000	.26738	.13446	.02389	.02529	.00249	.00011	-.00001	.61756	.25967	.18232
2.000	12.000	.36245	.12808	.02405	.02259	.00226	.00010	.00005	.62701	.32790	.20064
2.000	14.000	.44851	.12421	.02504	.02021	.00239	.00006	.00020	.63336	.40514	.22902
2.000	16.000	.52931	.12008	.02588	.01628	.00229	.00022	.00015	.63862	.47571	.26133
2.000	18.000	.60566	.11527	.02713	.01146	.00172	.00043	-.00003	.64297	.54040	.29679
2.000	20.000	.69668	.11302	.02823	.00544	.00158	.00048	-.00010	.64706	.61601	.34448
2.000	22.000	.78307	.10831	.02964	-.00192	.00117	.00031	-.00018	.65084	.68547	.39377
2.000	24.000	.87579	.10325	.03084	-.00820	.00090	.00033	-.00038	.65338	.75808	.45054
2.000	26.000	.96012	.09654	.03116	-.01279	.00101	-.00002	-.00051	.65484	.82063	.50766
2.000	27.000	1.00120	.09364	.03126	-.01272	.00013	.00020	-.00033	.65461	.84956	.53797
	GRADIENT	.04015	-.00265	.00010	-.00572	.00022	-.00000	-.00005	-.05431	.03747	-.00181

RUN NO. 91/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.13436	.11131	.00864	.01210	-.00067	.00039	.00015	.68307	-.13039	.11594
4.020	.000	-.08935	.10489	.00886	.01119	-.00071	.00044	.00015	.69601	-.08935	.10489
4.020	2.000	-.04199	.09985	.00894	.01020	-.00081	.00040	.00014	.73932	-.04545	.09833
4.020	4.000	.00688	.09459	.00898	.00946	-.00088	.00041	.00014	.14369	.00026	.09484
4.020	6.000	.05774	.08936	.00909	.00832	-.00094	.00037	.00014	.59695	.04809	.09491
4.020	8.000	.10861	.08665	.00929	.00857	-.00130	.00048	.00006	.62090	.09550	.10092
4.020	10.000	.16081	.08383	.00937	.00898	-.00149	.00038	.00010	.62940	.14381	.11048
4.020	12.000	.21640	.08139	.00934	.00914	-.00140	.00028	.00012	.63440	.19475	.12460
4.020	14.000	.27638	.07893	.00926	.00894	-.00190	.00030	.00011	.63804	.24907	.14345
4.020	16.000	.33866	.07659	.00921	.00779	-.00169	.00009	.00016	.64148	.30443	.16697
4.020	18.000	.40424	.07484	.00920	.00711	-.00185	-.00007	.00012	.64346	.36133	.19609
4.020	20.000	.47345	.07301	.00924	.00663	-.00181	-.00025	.00012	.64479	.41993	.23054
4.020	22.000	.54526	.07160	.00932	.00634	-.00220	-.00027	.00008	.64566	.47874	.27064
4.020	24.000	.61968	.06975	.00941	.00588	-.00234	-.00033	.00004	.64644	.53774	.31576
4.020	26.000	.69932	.06756	.00954	.00466	-.00271	-.00039	.00005	.64749	.59893	.36728
4.020	27.000	.74104	.06653	.00962	.00400	-.00244	-.00052	.00014	.64795	.63007	.39570
	GRADIENT	.02402	-.00271	.00005	-.00046	-.00003	-.00000	-.00000	-.03623	.02233	-.00261

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 30

0A115 826 C9 E43 FB H16 N28 R5 V8 W116

(RTV027) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 GREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-L0 = -20.000
 ELV-L1 = -20.000 ELV-R1 = -20.000
 ELV-R0 = -20.000 BOFLAP = .000
 SPDRK = 55085.000 RUDDER = .000

RUN NO. 62/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWO	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.13465	.11529	.00556	.02218	-.00029	.00040	.00003	.71056	-.13055	.11992
5.020	.000	-.09204	.10627	.00558	.01835	-.00061	.00043	.00001	.72332	-.09204	.10627
5.020	2.000	-.05022	.10023	.00558	.01647	-.00062	.00035	.00014	.77066	-.05368	.09842
5.020	4.000	-.00882	.09490	.00578	.01614	-.00058	.00028	.00019	1.32340	-.01542	.09405
5.020	6.000	.03537	.08995	.00580	.01632	-.00100	.00031	.00021	.48015	.02578	.09316
5.020	8.000	.08028	.08681	.00580	.01763	-.00080	.00017	.00024	.56916	.06742	.09714
5.020	10.000	.12798	.08291	.00583	.01656	-.00141	.00033	.00016	.60232	.11164	.10387
5.020	12.000	.18021	.07881	.00597	.01555	-.00173	.00027	.00017	.61819	.15988	.11456
5.020	14.000	.23565	.07584	.00586	.01590	-.00187	.00020	.00012	.62512	.21030	.13060
5.020	16.000	.29349	.07309	.00582	.01583	-.00201	.00012	.00007	.63010	.26198	.15116
5.020	18.000	.35509	.07141	.00581	.01688	-.00219	-.00000	.00006	.63245	.31565	.17764
5.020	20.000	.42028	.07008	.00582	.01828	-.00245	.00004	.00001	.63393	.37096	.20960
5.020	22.000	.49055	.06837	.00590	.01851	-.00265	.00003	-.00004	.63605	.42922	.24716
5.020	24.000	.56317	.06626	.00600	.01804	-.00301	.00013	-.00008	.63815	.48753	.28960
5.020	26.000	.63934	.06515	.00607	.01769	-.00325	.00003	-.00007	.63975	.54608	.33883
	GRADIENT	.02116	-.00310	.00003	-.00070	-.00337	-.00002	.00003	.00596	.01946	-.00329

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 31

0A115 B25 C9 E43 F8 M18 N28 R5 V8 W118

(RTV028) (10 JUL 75)

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1078.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -10.000
 ELV-LI = -40.000 ELV-RI = -40.000
 ELV-RO = -10.000 BDFLAP = .000
 SPD8RK = 55085.000 RUDDER = .000

RUN NO. 63/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CSL	XCP/L	CL	CD
5.020	-2.000	-.14281	.11985	.00556	.02469	.00009	.00055	.00032	.71356	-.13854	.12476
5.020	.000	-.09851	.10952	.00558	.02038	.00020	.00051	.00030	.72605	-.09851	.10952
5.020	2.000	-.05433	.10215	.00568	.01770	-.00024	.00045	.00033	.76980	-.05786	.10019
5.020	4.000	-.01203	.09616	.00578	.01694	-.00019	.00037	.00031	1.16820	-.01870	.09509
5.020	6.000	.03282	.09078	.00580	.01671	-.00031	.00039	.00039	.46254	.02315	.09369
5.020	8.000	.07837	.08762	.00580	.01760	-.00073	.00032	.00032	.56732	.06542	.09768
5.020	10.000	.12655	.08366	.00583	.01663	-.00131	.00049	.00026	.60159	.11010	.10436
5.020	12.000	.17846	.07932	.00587	.01555	-.00147	.00044	.00024	.61788	.15807	.11469
5.020	14.000	.23374	.07655	.00586	.01630	-.00169	.00040	.00021	.62428	.20827	.13083
5.020	16.000	.29148	.07322	.00582	.01588	-.00155	.00022	.00004	.62990	.26000	.15073
5.020	18.000	.35373	.07167	.00581	.01670	-.00187	.00007	.00023	.63257	.31427	.17747
5.020	20.000	.41953	.07005	.00582	.01773	-.00182	.00001	.00021	.63439	.37027	.20932
5.020	22.000	.48942	.06811	.00590	.01750	-.00222	.00003	.00016	.63678	.42827	.24649
5.020	24.000	.56224	.06650	.00600	.01694	-.00258	.00016	-.00001	.63885	.48658	.28943
5.020	26.000	.63824	.06560	.00607	.01693	-.00258	.00008	.00001	.64018	.54489	.33875
	GRADIENT	.02189	-.00358	.00003	-.00097	-.00006	-.00002	.00001	-.00299	.02016	-.00383

ORIGINAL PAGE 15
 OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 32

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV029) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -40.000
 ELV-L1 = -40.000 ELV-R1 = -40.000
 ELV-R0 = -40.000 BDFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 93/ 0 RN/L = 2.29 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.000	-.25434	.20379	.02326	.11654	.00009	.00122	.00160	.81853	-.24707	.21254
2.000	.000	-.16619	.19312	.02326	.09942	.00072	.00097	.00118	.87005	-.16619	.19312
2.000	2.000	-.07519	.18321	.02363	.08308	.00111	.00057	.00064	1.05650	-.08154	.18047
2.000	4.000	.01184	.17236	.02399	.06795	.00230	.00046	.00065	-1.46210	-.00021	.17277
2.000	6.000	.09318	.16405	.02392	.05707	.00121	.00092	.00082	.42456	.07552	.17289
2.000	8.000	.16768	.15679	.02376	.05096	.00195	.00072	.00078	.53811	.14422	.17860
2.000	10.000	.24690	.15068	.02389	.04540	.00235	.00076	.00098	.58227	.21698	.19127
2.000	12.000	.32979	.14935	.02405	.04290	.00258	.00066	.00078	.60207	.29153	.21465
2.000	14.000	.41478	.14224	.02504	.03862	.00178	.00084	.00089	.61568	.36805	.23836
2.000	16.000	.50002	.13834	.02588	.03459	.00173	.00058	.00065	.62448	.44252	.27080
2.000	18.000	.58369	.13311	.02713	.02927	.00152	.00059	.00031	.63148	.51399	.30696
2.000	20.000	.66559	.12628	.02823	.02314	.00182	.00048	.00033	.63715	.58226	.34631
2.000	22.000	.75379	.11993	.02964	.01588	.00145	.00033	.00026	.64219	.65397	.39357
2.000	24.000	.84159	.11456	.03084	.01106	.00137	.00040	.00008	.64510	.72224	.44696
2.000	26.000	.93107	.10868	.03116	.00714	.00152	-.00000	-.00013	.64712	.78520	.50583
2.000	27.000	.97338	.10582	.03126	.00558	.00044	.00014	-.00010	.64783	.81924	.53619
	GRADIENT	.04365	-.00501	.00010	-.00752	.00019	-.00006	-.00010	-.15600	.04056	-.00498

RUN NO. 92/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.000	-.16918	.13204	.00864	.02961	-.00111	.00075	.00093	.71454	-.16447	.13786
4.020	.000	-.11984	.12352	.00886	.02751	-.00132	.00075	.00079	.73441	-.11984	.12352
4.020	2.000	-.06909	.11648	.00894	.02503	-.00166	.00091	.00074	.78322	-.07312	.11399
4.020	4.000	-.01939	.11082	.00898	.02420	-.00139	.00087	.00076	1.10900	-.02708	.10920
4.020	6.000	.03309	.10471	.00909	.02250	-.00151	.00092	.00081	.39980	.02197	.10760
4.020	8.000	.08602	.10101	.00929	.02199	-.00145	.00096	.00074	.55589	.07112	.11200
4.020	10.000	.14047	.09764	.00937	.02102	-.00143	.00079	.00067	.59488	.12138	.12055
4.020	12.000	.19574	.09454	.00934	.02107	-.00155	.00068	.00074	.61033	.17180	.13317
4.020	14.000	.25680	.09120	.00926	.02074	-.00158	.00058	.00068	.62022	.22711	.15062
4.020	16.000	.31994	.08748	.00921	.01926	-.00173	.00040	.00077	.62779	.28343	.17228
4.020	18.000	.38744	.08430	.00920	.01819	-.00173	.00020	.00076	.63266	.34243	.19990
4.020	20.000	.45641	.08145	.00924	.01714	-.00180	-.00001	.00077	.63612	.40103	.23264
4.020	22.000	.52890	.07892	.00932	.01634	-.00206	-.00015	.00072	.63857	.46083	.27130
4.020	24.000	.60405	.07673	.00941	.01554	-.00248	-.00014	.00075	.64047	.52062	.31579
4.020	26.000	.68323	.07450	.00954	.01411	-.00217	-.00037	.00093	.64234	.58143	.36647
4.020	27.000	.72559	.07313	.00962	.01345	-.00229	-.00043	.00098	.64312	.61330	.39457
	GRADIENT	.02525	-.00337	.00005	-.00088	-.00004	.00002	-.00001	-.01272	.02328	-.00374

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 33

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV029) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -40.000
 ELV-LI = -40.000 ELV-RI = -40.000
 ELV-RO = -40.000 BDFLAP = .000
 SPDGRK = 55085.000 RUDDER = .000

RUN NO. 64/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.17313	.14198	.00556	.04425	-.00055	.00089	.00092	.74399	-.16807	.14793
5.020	.000	-.12459	.12766	.00558	.03761	-.00039	.00079	.00081	.76103	-.12459	.12766
5.020	2.000	-.07657	.11740	.00568	.03244	-.00025	.00060	.00080	.80583	-.08062	.11466
5.020	4.000	-.03221	.10986	.00578	.03039	-.00030	.00048	.00074	.99700	-.03980	.10735
5.020	6.000	.01441	.10311	.00580	.02902	-.00045	.00045	.00073	-.09116	.00355	.10405
5.020	8.000	.06210	.09809	.00580	.02863	-.00113	.00050	.00069	.48031	.04784	.10577
5.020	10.000	.11206	.09246	.00583	.02662	-.00111	.00065	.00078	.56254	.09430	.11051
5.020	12.000	.16513	.08688	.00587	.02473	-.00160	.00052	.00073	.59483	.14345	.11932
5.020	14.000	.22225	.08274	.00586	.02430	-.00180	.00059	.00076	.50970	.19563	.13405
5.020	16.000	.27995	.07868	.00582	.02401	-.00173	.00031	.00062	.61838	.24742	.15279
5.020	18.000	.34215	.07647	.00581	.02475	-.00220	.00027	.00073	.62332	.30177	.17845
5.020	20.000	.40800	.07453	.00582	.02560	-.00242	.00030	.00066	.62685	.35790	.20958
5.020	22.000	.47917	.07221	.00590	.02520	-.00234	.00007	.00066	.63059	.41723	.24645
5.020	24.000	.55164	.07020	.00600	.02480	-.00253	.00008	.00057	.63340	.47540	.28850
5.020	26.000	.62666	.06952	.00607	.02496	-.00275	.00007	.00060	.63528	.53276	.33720
	GRADIENT	.02337	-.00478	.00003	-.00188	.00002	-.00006	-.00002	-.07172	.02140	-.00540

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 34

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV030) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = -40.000 ELV-RI = -40.000
 ELV-RO = .000 BDFLAP = .000
 SPDGRK = 55085.000 RUDDER = .000

RUN NO. 65/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.13650	.11969	.00556	.02149	-.00058	.00060	.00005	.70786	-.13224	.12438
5.020	.000	-.09344	.10936	.00558	.01775	-.00044	.00056	.00006	.71985	-.09344	.10936
5.020	2.000	-.04997	.10253	.00568	.01562	-.00065	.00046	.00011	.76494	-.05351	.10073
5.020	4.000	-.00786	.09626	.00578	.01476	-.00070	.00040	.00009	1.34040	-.01456	.09548
5.020	6.000	.03700	.09110	.00580	.01463	-.00071	.00038	.00015	.50445	.02727	.09447
5.020	8.000	.08283	.08785	.00580	.01528	-.00119	.00038	.00007	.58207	.06980	.09852
5.020	10.000	.13139	.08393	.00583	.01401	-.00161	.00049	.00001	.61069	.11482	.10547
5.020	12.000	.18380	.07990	.00587	.01256	-.00203	.00051	-.00004	.62479	.16318	.11637
5.020	14.000	.23976	.07687	.00586	.01282	-.00207	.00044	-.00008	.63027	.21404	.13259
5.020	16.000	.29796	.07380	.00582	.01197	-.00207	.00026	-.00027	.63516	.26607	.15307
5.020	18.000	.36061	.07225	.00581	.01231	-.00218	.00010	-.00010	.63738	.32063	.18015
5.020	20.000	.42721	.07094	.00582	.01301	-.00270	.00026	-.00027	.63873	.37719	.21278
5.020	22.000	.49845	.06888	.00590	.01197	-.00270	.00012	-.00029	.64110	.43635	.25058
5.020	24.000	.57284	.06726	.00600	.01093	-.00331	.00032	-.00044	.64292	.49596	.29444
5.020	26.000	.64860	.06674	.00607	.00992	-.00318	.00024	-.00043	.64431	.55370	.34432
	GRADIENT	.02163	-.00351	.00003	-.00084	-.00003	-.00003	.00001	.01069	.01990	-.00369

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 35

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV031) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = -40.000 ELV-RI = -40.000
 ELV-RO = -20.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 66/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.14359	.12199	.00556	.02580	-.00099	.00122	.00278	.71606	-.13924	.12693
5.020	.000	-.09962	.11117	.00558	.02141	-.00140	.00114	.00233	.72901	-.09962	.11117
5.020	2.000	-.05487	.10339	.00568	.01854	-.00136	.00079	.00202	.77427	-.05844	.10141
5.020	4.000	-.01256	.09737	.00578	.01771	-.00163	.00077	.00196	1.16890	-.01932	.09626
5.020	6.000	.03231	.09192	.00580	.01745	-.00153	.00069	.00196	.45118	.02252	.09480
5.020	8.000	.07839	.08871	.00580	.01802	-.00201	.00059	.00187	.56538	.06529	.09875
5.020	10.000	.12680	.08464	.00583	.01686	-.00242	.00063	.00180	.60103	.11017	.10538
5.020	12.000	.17926	.08032	.00587	.01538	-.00244	.00047	.00187	.61836	.15864	.11584
5.020	14.000	.23444	.07738	.00586	.01593	-.00280	.00048	.00192	.62494	.20876	.13179
5.020	16.000	.29281	.07432	.00582	.01546	-.00255	.00023	.00191	.63051	.26099	.15215
5.020	18.000	.35512	.07257	.00581	.01607	-.00281	.00004	.00225	.63328	.31531	.17876
5.020	20.000	.42095	.07106	.00582	.01708	-.00324	.00021	.00223	.63500	.37125	.21075
5.020	22.000	.49159	.06906	.00590	.01655	-.00316	-.00000	.00247	.63755	.42992	.24819
5.020	24.000	.56406	.06732	.00600	.01576	-.00334	.00006	.00259	.63966	.48791	.29092
5.020	26.000	.63984	.06670	.00607	.01551	-.00335	-.00001	.00291	.64102	.54584	.34044
	GRADIENT	.02194	-.00370	.00003	-.00102	-.00007	-.00007	-.00010	-.00449	.02019	-.00396

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 36

0A115 B26 C9 E43 F8 M16 N20 R5 V8 W116

(RTV032) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -20.000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = -20.000 BDFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 70/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.12520	.11317	.00556	.01486	-.00089	.00057	.00005	.69390	-.12117	.11747
5.020	.000	-.08320	.10488	.00556	.01237	-.00042	.00041	.00006	.70463	-.08320	.10488
5.020	2.000	-.04235	.09926	.00560	.01156	-.00076	.00039	.00014	.75037	-.04579	.09772
5.020	4.000	-.00220	.09423	.00578	.01183	-.00083	.00032	.00014	2.62630	-.00877	.09384
5.020	6.000	.04152	.08985	.00580	.01231	-.00093	.00032	.00020	.54082	.03192	.09349
5.020	8.000	.08694	.08668	.00580	.01319	-.00104	.00025	.00020	.59411	.07403	.09793
5.020	10.000	.13614	.08263	.00583	.01146	-.00156	.00037	.00013	.61895	.11972	.10501
5.020	12.000	.18965	.07851	.00587	.00939	-.00161	.00025	.00015	.63173	.16918	.11622
5.020	14.000	.24550	.07541	.00586	.00881	-.00183	.00022	.00009	.63673	.21997	.13257
5.020	16.000	.30574	.07278	.00582	.00760	-.00216	.00019	.00003	.64079	.27383	.15424
5.020	18.000	.36929	.07093	.00581	.00713	-.00206	-.00002	.00005	.64284	.32930	.18157
5.020	20.000	.43662	.06931	.00582	.00714	-.00217	-.00001	-.00004	.64392	.38658	.21446
5.020	22.000	.50759	.06774	.00590	.00630	-.00242	-.00005	-.00011	.64537	.44525	.25296
5.020	24.000	.58219	.06587	.00600	.00435	-.00287	.00011	-.00022	.64719	.50507	.29697
5.020	26.000	.66144	.06475	.00607	.00214	-.00303	.00008	-.00022	.64875	.56611	.34816
	GRADIENT	.02072	-.00289	.00003	-.00029	-.00002	-.00003	.00002	.08078	.01903	-.00295

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 37

0A115 B28 C9 E43 F8 H16 N28 R5 V8 W116

(RTV033) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = -20.000 BDI LAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 68/ 0 RN/L = 2.58 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11940	.11153	.00556	.01022	-.00029	.00136	.00265	.68142	-.11543	.11563
5.020	.000	-.07786	.10357	.00558	.00846	-.00035	.00115	.00219	.68993	-.07786	.10357
5.020	2.000	-.03777	.09805	.00568	.00822	-.00051	.00098	.00206	.73000	-.04117	.09668
5.020	4.000	.00232	.09333	.00578	.00880	-.00059	.00083	.00186	-.74383	-.00419	.09327
5.020	6.000	.04561	.08876	.00580	.00947	-.00090	.00078	.00178	.57355	.03608	.09304
5.020	8.000	.09112	.08588	.00580	.01042	-.00089	.00062	.00172	.60784	.07828	.09772
5.020	10.000	.14069	.08203	.00583	.00848	-.00150	.00064	.00162	.62777	.12431	.10521
5.020	12.000	.19401	.07792	.00597	.00627	-.00212	.00072	.00156	.63805	.17357	.11655
5.020	14.000	.25075	.07493	.00586	.00520	-.00181	.00037	.00171	.64231	.22517	.13337
5.020	16.000	.31090	.07222	.00582	.00357	-.00184	.00026	.00180	.64571	.27895	.15512
5.020	18.000	.37515	.07049	.00581	.00313	-.00208	.00014	.00186	.64687	.33500	.18297
5.020	20.000	.44351	.06909	.00582	.00274	-.00213	.00004	.00200	.64767	.39313	.21662
5.020	22.000	.51602	.06737	.00590	.00123	-.00197	-.00016	.00217	.64906	.45320	.25577
5.020	24.000	.59119	.06548	.00600	-.00123	-.00235	-.00004	.00234	.65071	.51345	.30028
5.020	26.000	.67123	.06425	.00607	-.00413	-.00258	-.00012	.00264	.65220	.57513	.35199
	GRADIENT	.02051	-.00279	.00003	-.00006	-.00007	-.00007	-.00010	-.08247	.01884	-.00277

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 38

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(RTV034) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = -20.000 ELV-R1 = -20.000
 ELV-RO = .000 BDFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 69/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.12308	.11237	.00556	.01356	-.00139	.00070	.00004	.69048	-.11908	.11660
5.020	.000	-.08114	.10402	.00558	.01128	-.00129	.00061	.00005	.70111	-.08114	.10402
5.020	2.000	-.04014	.09840	.00568	.01012	-.00133	.00053	.00011	.74271	-.04355	.09694
5.020	4.000	.00079	.09336	.00578	.01022	-.00166	.00049	.00010	-4.08620	-.00572	.09319
5.020	6.000	.04438	.08878	.00580	.01065	-.00155	.00036	.00006	.56169	.03486	.09293
5.020	8.000	.08909	.08596	.00580	.01200	-.00179	.00031	.00002	.60036	.07626	.09753
5.020	10.000	.13744	.08254	.00583	.01109	-.00208	.00036	-.00008	.62026	.12102	.10515
5.020	12.000	.18979	.07842	.00587	.00960	-.00224	.00028	-.00011	.63133	.16934	.11617
5.020	14.000	.24590	.07566	.00586	.00957	-.00254	.00023	-.00017	.63562	.22029	.13291
5.020	16.000	.30439	.07294	.00582	.00881	-.00263	.00016	-.00027	.63929	.27250	.15402
5.020	18.000	.36700	.07128	.00581	.00907	-.00262	-.00002	-.00032	.64084	.32701	.18120
5.020	20.000	.43321	.07011	.00582	.01001	-.00313	.00010	-.00042	.64143	.38310	.21405
5.020	22.000	.50379	.06837	.00590	.00968	-.00323	.00004	-.00041	.64287	.44150	.25211
5.020	24.000	.57898	.06639	.00600	.00855	-.00380	.00024	-.00054	.64450	.50192	.29514
5.020	26.000	.65696	.06523	.00607	.00720	-.00368	.00019	-.00054	.64591	.56188	.34663
	GRADIENT	.02084	-.00289	.00003	-.00035	-.00003	-.00004	.00000	-.25224	.01917	-.00291

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 39

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV035) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 10.000 ELV-RI = -10.000
 ELV-RO = -20.000 BOFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 71/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11876	.11118	.00556	.01097	-.00031	.00134	.00359	.68393	-.11481	.11526
5.020	.000	-.07740	.10344	.00558	.00875	-.00077	.00114	.00310	.69155	-.07740	.10344
5.020	2.000	-.03681	.09793	.00568	.00790	-.00068	.00085	.00295	.72893	-.04021	.09658
5.020	4.000	.00382	.09315	.00578	.00791	-.00043	.00058	.00288	-.11302	-.00269	.09319
5.020	6.000	.04733	.08914	.00580	.00825	-.00054	.00041	.00296	.58580	.03775	.09360
5.020	8.000	.09313	.08589	.00580	.00884	-.00040	.00018	.00312	.61500	.08027	.09802
5.020	10.000	.14281	.08260	.00583	.00685	-.00101	.00019	.00328	.63230	.12630	.10614
5.020	12.000	.19561	.07859	.00587	.00430	-.00080	-.00009	.00362	.64190	.17598	.11775
5.020	14.000	.25357	.07604	.00586	.00318	-.00096	-.00023	.00398	.64533	.22764	.13512
5.020	16.000	.31388	.07323	.00582	.00113	-.00093	-.00048	.00440	.64862	.28154	.15691
5.020	18.000	.37800	.07168	.00581	.00016	-.00050	-.00086	.00487	.64978	.33735	.18498
5.020	20.000	.44531	.07041	.00582	-.00024	-.00072	-.00092	.00530	.65014	.39438	.21847
5.020	22.000	.51704	.06910	.00590	-.00190	-.00059	-.00115	.00581	.65129	.45351	.25775
5.020	24.000	.59363	.06758	.00600	-.00444	-.00086	-.00120	.00639	.65269	.51482	.30319
5.020	26.000	.67293	.06667	.00607	-.00747	-.00095	-.00136	.00702	.65402	.57560	.35492
	GRADIENT	.02067	-.00272	.00003	-.00031	-.00001	-.00012	-.00007	-.05004	.01899	-.00268

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV036) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = 10.000 ELV-RI = -10.000
 ELV-RO = -20.000 BOFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 72/ 0 RN/L = 2.56 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-3.009	.49512	.06892	.00603	-.00517	.02659	.00233	.01034	.65378	.43661	.24344
5.020	-2.005	.49302	.06885	.00600	-.00357	.01637	.00208	.00832	.65260	.43469	.24259
5.020	-1.001	.49165	.06913	.00595	-.00204	.00714	.00098	.00668	.65147	.43327	.24243
5.020	.006	.49012	.06915	.00589	-.00125	-.00056	-.00102	.00560	.65088	.43191	.24177
5.020	1.021	.49208	.06925	.00596	-.00133	-.00727	-.00335	.00475	.65093	.43369	.24260
5.020	2.020	.49145	.06860	.00608	-.00168	-.01650	-.00451	.00338	.65120	.43334	.24174
5.020	3.024	.49439	.06932	.00615	-.00216	-.02744	-.00466	.00122	.65155	.43587	.24342
	GRADIENT	-.00017	.00003	.00002	.00048	-.00860	-.00137	-.00139	-.00036	-.00016	-.00006

DATE 10 JUL 75

TABULATED SOURCE DATA - OA115

PAGE 40

OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV037) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
 ELV-L1 = -10.000 ELV-R1 = -10.000
 ELV-R0 = -10.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 73/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11689	.10996	.00556	.00985	.00010	.00048	.00203	.68095	-.11298	.11397
5.020	.000	-.07614	.10230	.00558	.00805	-.00030	.00045	.00176	.68884	-.07614	.10230
5.020	2.000	-.03595	.09674	.00568	.00726	-.00020	.00025	.00179	.72428	-.03931	.09542
5.020	4.000	.00442	.09222	.00578	.00756	-.00048	.00018	.00182	.02008	-.00203	.09231
5.020	6.000	.04765	.08815	.00580	.00843	-.00050	.00005	.00191	.58485	.03817	.09265
5.020	8.000	.09193	.08512	.00580	.00980	-.00070	-.00006	.00204	.61072	.07918	.09709
5.020	10.000	.14055	.08163	.00583	.00850	-.00075	-.00012	.00214	.62768	.12424	.10480
5.020	12.000	.19343	.07781	.00587	.00678	-.00106	-.00027	.00239	.63704	.17303	.11632
5.020	14.000	.24931	.07516	.00586	.00644	-.00120	-.00039	.00261	.64043	.22372	.13324
5.020	16.000	.30880	.07252	.00582	.00515	-.00128	-.00059	.00289	.64380	.27685	.15483
5.020	18.000	.37201	.07099	.00581	.00501	-.00124	-.00083	.00319	.64498	.33186	.18248
5.020	20.000	.43875	.06964	.00582	.00526	-.00162	-.00086	.00345	.64552	.38847	.21550
5.020	22.000	.50945	.06797	.00590	.00421	-.00168	-.00105	.00381	.64690	.44689	.25386
5.020	24.000	.58476	.06634	.00600	.00249	-.00202	-.00104	.00414	.64837	.50722	.29845
5.020	26.000	.66340	.06531	.00607	.00031	-.00202	-.00122	.00455	.64977	.56763	.34951
GRADIENT		.02048	-.00268	.00003	-.00017	-.00007	-.00000	-.00001	-.04305	.01882	-.00263

OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV038) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = 10.000
 ELV-L1 = -10.000 ELV-R1 = -10.000
 ELV-R0 = -10.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 74/ 0 RN/L = 2.57 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-3.021	.48698	.06809	.00609	.00189	.02579	.00234	.00824	.64851	.42922	.23990
5.020	-2.010	.48502	.06801	.00608	.00306	.01512	.00215	.00622	.64761	.42750	.23899
5.020	-1.006	.48427	.06830	.00607	.00403	.00583	.00108	.00467	.64688	.42668	.23902
5.020	.004	.48433	.06835	.00602	.00461	-.00146	-.00096	.00367	.64644	.42666	.23920
5.020	1.019	.48470	.06793	.00597	.00433	-.00822	-.00325	.00292	.64665	.42718	.23889
5.020	2.022	.48832	.06777	.00607	.00304	-.01756	-.00448	.00148	.64764	.43059	.24009
5.020	3.021	.48947	.06817	.00611	.00259	-.02845	-.00465	-.00053	.64799	.43162	.24068
GRADIENT		.00051	-.00002	-.00000	.00008	-.00858	-.00137	-.00133	-.00006	.00049	.00016

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 41

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV039) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = -10.000 ELV-RI = -10.000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 75/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.11505	.10925	.00556	.00901	-.00017	.00047	.00018	.67877	-.11116	.11320
5.020	.000	-.07466	.10159	.00558	.00740	-.00065	.00051	.00013	.68641	-.07466	.10159
5.020	2.000	-.03480	.09531	.00568	.00684	-.00039	.00033	.00021	.72229	-.03814	.09504
5.020	4.000	.00516	.09176	.00578	.00751	-.00054	.00024	.00019	.71412	-.00126	.09189
5.020	6.000	.04770	.08740	.00580	.00855	-.00064	.00019	.00011	.58402	.03830	.09191
5.020	8.000	.09221	.08471	.00580	.01011	-.00104	.00018	.00008	.60960	.07953	.09672
5.020	10.000	.14054	.08098	.00583	.00901	-.00136	.00026	-.00005	.62634	.12435	.10415
5.020	12.000	.19296	.07705	.00587	.00748	-.00200	.00030	-.00012	.63568	.17272	.11548
5.020	14.000	.24921	.07434	.00586	.00712	-.00201	.00020	-.00017	.63943	.22383	.13242
5.020	16.000	.30807	.07167	.00582	.00613	-.00193	.00006	-.00025	.64262	.27638	.15381
5.020	18.000	.37164	.06992	.00581	.00619	-.00225	-.00002	-.00031	.64381	.33185	.18134
5.020	20.000	.43785	.06853	.00582	.00638	-.00240	-.00003	-.00034	.64458	.38800	.21415
5.020	22.000	.50852	.06673	.00590	.00571	-.00265	-.00006	-.00042	.64580	.44649	.25237
5.020	24.000	.58259	.06491	.00600	.00385	-.00306	.00006	-.00049	.64751	.50582	.29625
5.020	26.000	.66128	.06382	.00607	.00193	-.00324	.00003	-.00049	.64886	.56638	.34725
	GRADIENT	.02027	-.00268	.00003	-.00004	-.00004	-.00004	-.00000	-.03809	.01862	-.00261

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 42

0A115 B28 C9 E43 F8 H16 N28 R5 V8 W116

(RTV040) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 10.000 ELV-RI = 10.000
 ELV-RO = .000 BDFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 78/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.10825	.10926	.00556	.00367	.00042	.00051	-.00000	.66240	-.10437	.11297
5.020	.000	-.06785	.10168	.00558	.00213	.00001	.00054	-.00005	.66149	-.06785	.10168
5.020	2.000	-.02776	.09669	.00568	.00153	.00004	.00042	-.00000	.67024	-.03112	.09566
5.020	4.000	.01258	.09249	.00578	.00152	-.00010	.00035	-.00004	.60541	.00610	.09315
5.020	6.000	.05675	.08843	.00580	.00127	-.00045	.00036	-.00008	.64169	.04719	.09388
5.020	8.000	.10340	.08581	.00580	.00103	-.00047	.00027	-.00014	.64626	.09045	.09936
5.020	10.000	.15406	.08255	.00583	-.00214	-.00129	.00048	-.00030	.65504	.13738	.10805
5.020	12.000	.20940	.07902	.00587	-.00599	-.00188	.00050	-.00039	.66046	.18840	.12083
5.020	14.000	.26824	.07657	.00586	-.00847	-.00173	.00042	-.00048	.66156	.24174	.13919
5.020	16.000	.33014	.07434	.00582	-.01205	-.00182	.00032	-.00058	.66337	.29685	.16246
5.020	18.000	.39671	.07315	.00581	-.01455	-.00201	.00020	-.00066	.66343	.35469	.19216
5.020	20.000	.46620	.07210	.00582	-.01691	-.00230	.00024	-.00078	.66328	.41342	.22720
5.020	22.000	.53991	.07110	.00590	-.02030	-.00228	.00015	-.00085	.66377	.47396	.26817
5.020	24.000	.61792	.07005	.00600	-.02491	-.00302	.00034	-.00099	.66477	.53600	.31532
5.020	26.000	.69980	.06970	.00607	-.03014	-.00299	.00032	-.00101	.66579	.59842	.36942
	GRADIENT	.02052	-.00254	.00003	-.00027	-.00009	-.00002	-.00001	-.00487	.01885	-.00234

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 43

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(RTV041) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .900 ELV-LO = .000
 ELV-L1 = -20.000 ELV-RI = -20.000
 ELV-RO = -10.000 BOFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 77/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.12479	.11210	.00555	.01537	-.00048	.00077	.00133	.69526	-.12080	.11639
5.020	.000	-.08268	.10368	.00558	.01279	-.00039	.00065	.00113	.70687	-.08268	.10368
5.020	2.000	-.04170	.09795	.00568	.01135	-.00036	.00050	.00112	.75012	-.04510	.09644
5.020	4.000	-.00111	.09300	.00578	.01125	-.00060	.00045	.00107	4.38100	-.00759	.09270
5.020	6.000	.04264	.08847	.00580	.01180	-.00077	.00036	.00101	.54808	.03316	.09244
5.020	8.000	.08685	.08537	.00580	.01320	-.00087	.00028	.00098	.59402	.07413	.09663
5.020	10.000	.13495	.08181	.00583	.01238	-.00121	.00034	.00092	.61618	.11870	.10400
5.020	12.000	.18694	.07785	.00587	.01130	-.00177	.00030	.00097	.62770	.16667	.11502
5.020	14.000	.24232	.07493	.00586	.01143	-.00173	.00019	.00099	.63259	.21700	.13132
5.020	16.000	.30041	.07228	.00582	.01092	-.00203	.00011	.00102	.63655	.26885	.15228
5.020	18.000	.36355	.07094	.00581	.01163	-.00188	-.00014	.00114	.63817	.32383	.17981
5.020	20.000	.42807	.06939	.00582	.01243	-.00243	-.00005	.00122	.63925	.37852	.21162
5.020	22.000	.49749	.06756	.00590	.01257	-.00231	-.00017	.00133	.64064	.43595	.24900
5.020	24.000	.57084	.06546	.00600	.01153	-.00282	-.00009	.00144	.64250	.49486	.29198
5.020	26.000	.64868	.06445	.00607	.01061	-.00277	-.00019	.00160	.64392	.55478	.34229
	GRADIENT	.02082	-.00290	.00003	-.00043	-.00004	-.00005	-.00004	.16899	.01915	-.00294

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 44

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 N24

(RTV042) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -20.000
 ELV-LI = -20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BOFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 79/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.000	-.13667	.11530	.00556	.02388	-.00034	.00040	.00025	.71423	-.13256	.12000
5.020	.000	-.09275	.10612	.00558	.01988	-.00053	.00041	.00019	.72880	-.09275	.10612
5.020	2.000	-.05056	.09977	.00568	.01763	-.00082	.00037	.00031	.77825	-.05401	.09794
5.020	4.000	-.00897	.09460	.00578	.01694	-.00089	.00034	.00035	1.34510	-.01554	.09374
5.020	6.000	.03557	.08973	.00580	.01682	-.00086	.00026	.00035	.47592	.02599	.09295
5.020	8.000	.08076	.08666	.00580	.01776	-.00109	.00020	.00033	.56902	.06791	.09706
5.020	10.000	.12895	.08275	.00583	.01663	-.00172	.00037	.00024	.60249	.11262	.10388
5.020	12.000	.18095	.07834	.00587	.01536	-.00174	.00021	.00023	.61870	.16070	.11425
5.020	14.000	.23671	.07552	.00586	.01557	-.00222	.00021	.00017	.62573	.21141	.13054
5.020	16.000	.29430	.07251	.00582	.01536	-.00218	.00008	.00011	.63073	.26292	.15083
5.020	18.000	.35612	.07080	.00581	.01620	-.00236	-.00006	.00007	.63320	.31681	.17738
5.020	20.000	.42151	.06943	.00582	.01743	-.00253	-.00009	.00002	.63472	.37234	.20941
5.020	22.000	.49008	.06763	.00590	.01804	-.00284	-.00012	-.00000	.63639	.42906	.24629
5.020	24.000	.56267	.06552	.00600	.01769	-.00338	.00002	-.00007	.63837	.48737	.28872
5.020	26.000	.63955	.06436	.00607	.01755	-.00357	-.00005	-.00004	.63984	.54661	.33820
GRADIENT		.02141	-.00313	.00003	-.00085	-.00007	-.00002	.00002	.00698	.01972	-.00332

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 N24

(RTV043) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = -20.000
 ELV-LI = -20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BOFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 79/ 0 RN/L = 2.57 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-3.011	.46625	.06762	.00593	.01553	.02456	.00324	.00420	.63768	.41014	.23183
5.020	-2.015	.46628	.06748	.00591	.01572	.01407	.00304	.00229	.63674	.41007	.23198
5.020	-1.008	.46535	.06787	.00591	.01764	.00486	.00195	.00087	.63599	.40907	.23199
5.020	.000	.46428	.06796	.00589	.01789	-.00256	-.00007	-.00000	.63576	.40813	.23152
5.020	1.011	.46705	.06793	.00588	.01732	-.00365	-.00234	-.00069	.63630	.41073	.23248
5.020	2.023	.46988	.06760	.00594	.01630	-.01868	-.00358	-.00201	.63717	.41338	.23338
5.020	3.019	.46870	.06758	.00601	.01601	-.02927	-.00372	-.00384	.63737	.41241	.23274
GRADIENT		.00058	.00001	.00001	.00001	-.00857	-.00136	-.00122	.00001	.00054	.00021

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 45

0A115 326 C9 E43 F8 H16 N28 R5 V8 W116 SEAL

(RTV044) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -20.000
 ELV-LI = -20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 99/ 0 RN/L = 2.31 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CSL	XCP/L	CL	CD
2.000	-2.000	-.18808	.16494	.02326	.08243	.00008	.00052	.00030	.81120	-.18221	.17140
2.000	.000	-.10715	.15962	.02326	.07084	.00052	.00026	.00014	.89319	-.10715	.15962
2.000	2.000	-.02379	.15526	.02363	.05875	.00024	.00044	.00011	1.55840	-.02920	.15434
2.000	4.000	.05453	.14908	.02399	.04715	.00070	.00029	-.00006	.33175	.04399	.15252
2.000	6.000	.13370	.14357	.02392	.03695	.00079	.00035	-.00005	.54825	.11796	.15676
2.000	8.000	.20962	.13889	.02376	.02978	.00124	.00044	.00006	.59767	.18825	.16671
2.000	10.000	.28851	.13462	.02389	.02490	.00126	.00045	.00030	.61818	.26075	.18267
2.000	12.000	.36416	.12805	.02405	.02154	.00157	.00038	.00051	.62810	.32958	.20096
2.000	14.000	.44669	.12329	.02504	.01860	.00189	.00037	.00078	.63462	.40359	.22769
2.000	16.000	.53114	.12006	.02588	.01481	.00115	.00053	.00074	.63968	.47747	.26181
2.000	18.000	.61920	.11729	.02713	.01013	.00053	.00092	.00070	.64392	.55265	.30289
2.000	20.000	.70117	.11314	.02823	.00316	.00039	.00080	.00078	.64828	.62019	.34613
2.000	22.000	.78307	.10756	.02964	-.00459	.00013	.00074	.00077	.65209	.68575	.39307
2.000	24.000	.87964	.10388	.03084	-.01051	-.00073	.00103	.00053	.65433	.76134	.45268
2.000	26.000	.95634	.09598	.03116	-.01530	-.00080	.00076	.00044	.65582	.81748	.50550
2.000	27.000	1.00140	.09370	.03126	-.01525	-.00161	.00085	.00062	.65554	.84970	.53811
	GRADIENT	.04026	-.00266	.00010	-.00573	.00008	-.00002	-.00005	-.05437	.03757	-.00182

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 46

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV045) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 15/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-2.486	-.10877	.09433	.00556	-.01481	-.00146	.00061	.00010	.59984	-.10457	.09896
5.020	-.043	-.06220	.08735	.00559	-.01345	-.00159	.00063	.00004	.57034	-.06213	.08740
5.020	3.970	.01880	.07883	.00578	-.01088	-.00151	.00041	.00002	.86292	.01330	.07994
5.020	8.006	.10810	.07158	.00580	-.00954	-.00221	.00041	-.00004	.68375	.09708	.08594
5.020	12.105	.20749	.06677	.00587	-.00975	-.00297	.00046	-.00022	.66724	.18887	.10880
5.020	16.143	.32365	.06461	.00582	-.00811	-.00347	.00039	-.00036	.65915	.29293	.15205
5.020	20.194	.45835	.06350	.00583	-.00727	-.00344	.00014	-.00047	.65578	.40825	.21782
5.020	24.287	.60672	.06138	.00601	-.00993	-.00439	.00022	-.00059	.65596	.52778	.30550
5.020	27.107	.72505	.06074	.00610	-.01477	-.00411	.00016	-.00065	.65743	.61773	.38444
	GRADIENT	.01980	-.00237	.00004	.00061	-.00000	-.00003	-.00001	.04393	.01831	-.00284

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV046) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 16/ 0 RN/L = 2.56 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
5.020	-3.016	.49604	.06276	.00620	-.00912	.02383	.00334	.00418	.65670	.43973	.23786
5.020	-2.013	.49499	.06249	.00611	-.00822	.01434	.00263	.00240	.65605	.43881	.23741
5.020	-1.011	.49734	.06288	.00603	-.00761	.00516	.00161	.00086	.65557	.44077	.23880
5.020	-.000	.49596	.06292	.00590	-.00725	-.00339	.00011	-.00051	.65532	.43954	.23819
5.020	1.012	.49791	.06276	.00598	-.00775	-.01156	-.00142	-.00179	.65566	.44136	.23885
5.020	2.016	.49724	.06225	.00606	-.00805	-.02072	-.00258	-.00315	.65589	.44093	.23813
5.020	3.023	.49832	.06253	.00611	-.00866	-.03053	-.00327	-.00484	.65633	.44192	.23862
	GRADIENT	.00042	-.00005	-.00002	.00006	-.00886	-.00118	-.00145	-.00005	.00040	.00012

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 47

0A115 828 C8 E43 F8 M16 N28 R5 V8 W116

(RTV047) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.8800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = -10.000 BDFLAP = .000
 SPDRK = 55.000 RUDDER = .000

RUN NO. 90/ 0 RN/L = 2.65 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CSL	XCP/L	CL	CD
4.020	-2.000	-.10440	.10363	.00864	-.00752	-.00015	.00052	.00217	.62345	-.10072	.10721
4.020	.000	-.05961	.09864	.00886	-.00715	-.00026	.00048	.00201	.60581	-.05961	.09864
4.020	2.000	-.01405	.09482	.00894	-.00650	.00001	.00031	.00198	.47958	-.01735	.09428
4.020	4.000	.03345	.09093	.00898	-.00539	-.00004	.00019	.00199	.71253	.02703	.09304
4.020	6.000	.08400	.08654	.00909	-.00515	-.00009	.00010	.00216	.67686	.07449	.09485
4.020	8.000	.13497	.08444	.00929	-.00624	-.00065	.00020	.00214	.66694	.12190	.10240
4.020	10.000	.19003	.08185	.00937	-.00748	-.00078	-.00001	.00239	.66443	.17293	.11361
4.020	12.000	.24792	.07991	.00934	-.00887	-.00069	-.00022	.00261	.66310	.22588	.12970
4.020	14.000	.31082	.07772	.00926	-.01080	-.00083	-.00035	.00281	.66272	.28278	.15060
4.020	16.000	.37529	.07572	.00921	-.01365	-.00080	-.00069	.00308	.66332	.33988	.17623
4.020	18.000	.44282	.07403	.00920	-.01635	-.00079	-.00092	.00332	.66352	.39827	.20725
4.020	20.000	.51352	.07195	.00924	-.01914	-.00085	-.00120	.00368	.66366	.45794	.24325
4.020	22.000	.58791	.07075	.00932	-.02187	-.00110	-.00136	.00399	.66363	.51859	.28583
4.020	24.000	.66429	.06973	.00941	-.02514	-.00145	-.00148	.00428	.66386	.57850	.33389
4.020	26.000	.74636	.06825	.00954	-.02946	-.00167	-.00174	.00475	.66446	.64091	.38852
4.020	27.000	.78854	.06718	.00962	-.03204	-.00089	-.00212	.00499	.66489	.67209	.41785
	GRADIENT	.02349	-.00209	.00005	.00021	.00002	-.00006	-.00000	.01068	.02185	-.00152

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 48

0A115 B26 C9 E43 FB M16 N28 R5 V8 M116

(RTV048) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 81/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
4.020	-2.673	-.11790	.10494	.00853	-.00955	-.00107	.00064	-.00003	.62014	-.11288	.11032
4.020	-.112	-.05927	.09866	.00886	-.00803	-.00111	.00058	-.00010	.60007	-.05908	.09878
4.020	3.951	.03139	.09068	.00898	-.00584	-.00111	.00049	-.00016	.71840	.02507	.09263
4.020	8.090	.13559	.08375	.00930	-.00574	-.00171	.00065	-.00037	.66552	.12246	.10200
4.020	12.134	.25177	.07942	.00933	-.00783	-.00190	.00036	-.00037	.66139	.22945	.13056
4.020	16.238	.38301	.07488	.00922	-.01250	-.00199	.00010	-.00049	.65195	.34679	.17899
4.020	20.359	.52676	.07096	.00925	-.01806	-.00210	-.00016	-.00057	.66255	.46916	.24979
4.020	24.474	.68694	.06869	.00943	-.02419	-.00277	-.00018	-.00074	.66289	.59676	.34710
4.020	27.239	.80475	.06626	.00967	-.03069	-.00262	-.00044	-.00070	.66397	.68518	.42725
	GRADIENT	.02252	-.00214	.00006	.00056	-.00000	-.00002	-.00002	.01614	.02081	-.00257

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 49

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(RTV049) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPOBRK = 85.000 RUDDER = .000

RUN NO. 5/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.500	-2.000	-.12679	.15162	.01735	.04886	.00135	-.00030	.00016	.79173	-.12142	.15595
2.500	.000	-.06415	.14778	.01778	.04242	.00125	-.00037	.00009	.89322	-.06415	.14778
2.500	2.000	-.00026	.14498	.01793	.03611	.00119	-.00038	.00003	51.68100	-.00532	.14488
2.500	4.000	.06147	.14103	.01793	.03034	.00154	-.00047	.00005	.46831	.05148	.14498
2.500	6.000	.12475	.13640	.01776	.02510	.00136	-.00042	-.00011	.57590	.10981	.14869
2.500	8.000	.18878	.13133	.01765	.02164	.00157	-.00037	-.00015	.60776	.16867	.15632
2.500	10.000	.25899	.12693	.01803	.01745	.00170	-.00024	-.00003	.62514	.23301	.16998
2.500	12.000	.32990	.12377	.01860	.01335	.00141	-.00022	-.00023	.63505	.29696	.18966
2.500	14.000	.40613	.12116	.01909	.00854	.00153	-.00014	-.00021	.64220	.36476	.21581
2.500	16.000	.47884	.11729	.01949	.00451	.00132	-.00008	-.00021	.64647	.42796	.24474
2.500	18.000	.55361	.11133	.01984	-.00152	.00115	-.00011	-.00032	.65095	.49211	.27695
2.500	20.000	.63474	.10648	.02027	-.00772	.00126	-.00025	-.00028	.65441	.56004	.31716
2.500	22.000	.71686	.10099	.02084	-.01539	.00094	-.00037	-.00032	.65784	.62683	.36218
2.500	24.000	.80256	.09583	.02178	-.02342	.00083	-.00057	-.00031	.66068	.69420	.41398
2.500	26.000	.89156	.08996	.02185	-.03143	.00012	-.00061	-.00041	.66291	.76189	.47169
2.500	27.000	.93295	.08738	.02158	-.03561	-.00035	-.00028	-.00039	.66398	.79159	.50140
	GRADIENT	.03144	-.00186	.00005	-.00298	.00002	-.00002	-.00003	-.04283	.02890	-.00087

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 50

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(RTV050) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BOFLAP = .000
 SPOBRK = 85.000 RUDDER = -10.000

RUN NO. 104/ 0 RN/L = 2.34 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.486	-.15410	.17507	.02650	.07476	.00059	.00008	-.00036	.82845	-.14636	.18158
2.000	.113	-.04611	.16991	.02704	.05907	.00120	-.00002	-.00047	1.12130	-.04644	.16982
2.000	4.183	.10902	.16195	.02696	.03731	.00180	.00000	-.00071	.52403	.09692	.16947
2.000	8.290	.26708	.15249	.02703	.02093	.00231	.00023	-.00123	.62110	.24230	.18941
2.000	12.458	.42994	.14206	.02795	.01009	.00287	.00007	-.00098	.64130	.38917	.23146
2.000	16.556	.60114	.13372	.02973	-.00402	.00261	.00025	-.00093	.65240	.53811	.29948
2.000	20.707	.77625	.12563	.03145	-.01976	.00160	.00042	-.00128	.65930	.68168	.39199
2.000	24.836	.96148	.11432	.03065	-.03606	.00093	.00054	-.00150	.66374	.82453	.50759
2.000	27.729	1.08600	.10555	.03348	-.04287	-.00026	.00088	-.00192	.66446	.91218	.59875
	GRADIENT	.03934	-.00197	.00006	-.00559	.00018	-.00001	-.00005	-.05458	.03637	-.00166

0A115 B26 C9 E43 F8 M7 N28 R5 V8 W116

(RTV051) (10 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = -10.000

RUN NO. 96/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CN	CA	CAB	CLMFWD	CY	CYN	CBL	XCP/L	CL	CD
2.000	-2.520	-.12881	.13932	.02601	.02850	.00049	.00006	-.00039	.73135	-.12256	.14485
2.000	.002	-.02556	.13672	.02695	.01604	.00093	.00013	-.00057	.88076	-.02557	.13672
2.000	4.091	.13297	.13050	.02695	-.00375	.00128	.00027	-.00076	.66031	.12332	.13966
2.000	8.211	.28376	.12302	.02613	-.01692	.00250	.00028	-.00112	.67187	.26328	.16229
2.000	12.369	.45029	.11513	.02785	-.02565	.00280	.00025	-.00086	.67090	.41518	.20892
2.000	16.505	.62604	.10987	.03100	-.03733	.00280	.00022	-.00093	.67188	.56904	.28319
2.000	20.652	.80498	.10239	.03413	-.05432	.00149	.00055	-.00131	.67477	.71714	.37972
2.000	24.762	.98377	.09473	.03526	-.06730	.00027	.00066	-.00126	.67511	.85365	.49806
2.000	27.673	1.10700	.08829	.03564	-.07124	.00199	-.00007	-.00168	.67362	.93934	.59231
	GRADIENT	.03952	-.00135	.00013	-.00487	.00012	.00003	-.00006	-.01489	.03712	-.00064

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 51

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116 TUFTS

(ATV001) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 20.000
 ELV-LI = 20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BDFLAP = 16.300
 SPOBRK = 85.000 RUDDER = -10.000

RUN NO. 1/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
2.500	-2.561	-.08217	-.03537	-.11753	-.11128	-.11700	-.12767	-.11665	-.11027	-.11377
2.500	.014	-.09989	-.04648	-.14637	-.11477	-.12213	-.13284	-.11986	-.11239	-.11714
2.500	4.102	-.13005	-.06229	-.19234	-.12471	-.13392	-.13785	-.13156	-.11736	-.13101
2.500	8.181	-.16260	-.07847	-.24107	-.12517	-.13450	-.13466	-.12925	-.12479	-.12831
2.500	12.292	-.19744	-.09613	-.29357	-.13179	-.13643	-.14058	-.13483	-.18980	-.13537
2.500	16.420	-.23359	-.11445	-.34804	-.13188	-.13280	-.13613	-.13252	-.13416	-.13349
2.500	20.522	-.27270	-.13389	-.40659	-.13482	-.13449	-.13755	-.13797	-.14719	-.13884
2.500	24.638	-.31322	-.15455	-.46777	-.13413	-.13742	-.13972	-.14004	-.14660	-.13717
2.500	27.534	-.33946	-.16764	-.50710	-.13486	-.13403	-.14392	-.14216	-.14247	-.13805
	GRADIENT	-.00720	-.00402	-.01123	-.00205	-.00257	-.00150	-.00229	-.00108	-.00266

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116 TUFTS

(ATV002) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = 20.000
 ELV-LI = 20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BDFLAP = 16.300
 SPOBRK = 85.000 RUDDER = -10.000

RUN NO. 2/ 0 RN/L = 2.56 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHEI	CHEO	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
2.500	-3.061	-.29845	-.14421	-.44266	-.12681	-.12721	-.13706	-.13917	-.13879	-.13011
2.500	-2.039	-.29708	-.14307	-.44015	-.12924	-.12911	-.13549	-.13559	-.14265	-.13379
2.500	-1.004	-.29641	-.14199	-.43840	-.13071	-.13097	-.13431	-.13550	-.14335	-.13527
2.500	.023	-.29541	-.14110	-.43651	-.13106	-.13241	-.13499	-.13563	-.14332	-.13573
2.500	1.063	-.29145	-.13937	-.43082	-.13346	-.13531	-.13689	-.13852	-.14385	-.13725
2.500	2.099	-.28676	-.13702	-.42377	-.12955	-.13122	-.13418	-.13193	-.13483	-.13405
2.500	3.106	-.27700	-.13350	-.41050	-.13325	-.13614	-.13888	-.13843	-.13973	-.13924
	GRADIENT	.00312	.00162	.00474	-.00079	-.00122	-.00019	.00023	.00043	-.00103

ORIGINAL PAGE 15
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 52

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116 PRESS

(ATV003) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 938.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BDFLAP = .000
 SPOBRK = 85.000 RUDDER = .000

RUN NO. 10/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
2.000	-2.459	.05899	.00710	.06409	-.15175	-.16533	-.18448	-.16789	-.16480	-.15574
2.000	.099	.03718	-.00197	.03521	-.15735	-.16842	-.18481	-.16868	-.16458	-.16237
2.000	4.208	.00034	-.01531	-.01497	-.15932	-.16858	-.17355	-.16796	-.16633	-.16695
2.000	8.320	-.03381	-.02538	-.05917	-.15678	-.16863	-.16965	-.17002	-.16288	-.16545
2.000	12.440	-.06071	-.03661	-.09732	-.16616	-.16749	-.17406	-.17188	-.17204	-.16950
2.000	16.543	-.09063	-.04777	-.13840	-.17862	-.18330	-.18864	-.18835	-.19102	-.18168
2.000	20.673	-.12162	-.05852	-.18015	-.19188	-.19785	-.19997	-.20261	-.20403	-.19492
2.000	24.838	-.15326	-.06776	-.22102	-.20806	-.21010	-.21976	-.21489	-.21629	-.21041
2.000	27.733	-.16717	-.07226	-.23944	-.20831	-.20584	-.22375	-.21813	-.21763	-.21267
	GRADIENT	-.00854	-.00335	-.01190	-.00107	-.00017	.00174	.00001	-.00028	-.00163

RUN NO. 3/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
2.500	-2.460	.03706	.00622	.04328	-.11252	-.11561	-.12836	-.11794	-.11694	-.11369
2.500	.083	.02052	-.00052	.02001	-.11641	-.11997	-.13409	-.12153	-.12008	-.11814
2.500	4.131	-.01011	-.01023	-.02034	-.11910	-.12091	-.12860	-.12187	-.12452	-.12051
2.500	8.270	-.03164	-.02009	-.05173	-.11513	-.12057	-.12032	-.12305	-.12329	-.12141
2.500	12.424	-.05508	-.02955	-.08463	-.12385	-.12638	-.12885	-.13015	-.13044	-.12726
2.500	16.537	-.07866	-.03962	-.11828	-.13069	-.13006	-.13587	-.13340	-.13749	-.13415
2.500	20.676	-.10128	-.05050	-.15177	-.13849	-.13871	-.14084	-.13989	-.14087	-.13863
2.500	24.798	-.12812	-.06211	-.19024	-.14593	-.14808	-.15171	-.15130	-.15502	-.14927
2.500	27.589	-.14635	-.06947	-.21582	-.14081	-.14104	-.14886	-.14916	-.14739	-.14800
	GRADIENT	-.00720	-.00249	-.00968	-.00097	-.00075	.00009	-.00055	-.00115	-.00101

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 53

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 PRESS

(ATV004) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 9/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
2.000	-2.562	.05715	.00749	.05464	-.15074	-.15778	-.17446	-.15914	-.15978	-.15264
2.000	.021	.03773	-.00190	.03583	-.15396	-.15665	-.16985	-.15885	-.15914	-.15553
2.000	4.123	-.00012	-.01548	-.01560	-.15500	-.16396	-.16614	-.16657	-.16554	-.16563
2.000	8.181	-.03314	-.02502	-.05817	-.15119	-.16345	-.16263	-.16596	-.16399	-.16634
2.000	12.336	-.06015	-.03668	-.09684	-.15740	-.16360	-.16469	-.16685	-.16673	-.16919
2.000	16.496	-.09046	-.04745	-.13791	-.17132	-.17233	-.17987	-.18097	-.18255	-.17662
2.000	20.624	-.12118	-.05843	-.17961	-.18724	-.19216	-.19614	-.19567	-.19901	-.19034
2.000	24.724	-.15186	-.06762	-.21948	-.20728	-.20792	-.21776	-.21312	-.21562	-.20888
2.000	27.667	-.16718	-.07257	-.23975	-.21069	-.20638	-.21992	-.21747	-.21622	-.21304
	GRADIENT	-.00863	-.00342	-.01205	-.00060	-.00100	.00121	-.00118	-.00093	-.00199

RUN NO. 6/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
2.500	-2.628	.03777	.00670	.04447	-.11044	-.11507	-.12332	-.11654	-.11657	-.11359
2.500	-.073	.02131	-.00046	.02085	-.11679	-.11859	-.12904	-.11993	-.11980	-.11731
2.500	4.023	-.00864	-.00948	-.01812	-.12012	-.12050	-.12533	-.12211	-.12122	-.12021
2.500	8.168	-.03128	-.01953	-.05081	-.11501	-.11996	-.11955	-.12293	-.12279	-.12205
2.500	12.302	-.05453	-.02901	-.08353	-.12137	-.12797	-.12580	-.12754	-.12794	-.12873
2.500	16.457	-.07782	-.03912	-.11694	-.12569	-.12440	-.13095	-.13105	-.13145	-.12827
2.500	20.596	-.10070	-.05012	-.15081	-.13853	-.13848	-.14049	-.13982	-.14161	-.13932
2.500	24.703	-.12695	-.06131	-.18826	-.14756	-.14884	-.15296	-.15228	-.15442	-.14976
2.500	27.596	-.14548	-.06923	-.21471	-.14530	-.14559	-.15381	-.15313	-.14978	-.15197
	GRADIENT	-.00701	-.00241	-.00942	-.00140	-.00078	-.00019	-.00081	-.00067	-.00097

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 54

0A115 926 C9 E43 F8 M16 N28 R5 V8 W116

(ATV005) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPCBRK = 55.000 RUDDER = .000

RUN NO. 8/ 0 RN/L = 2.31 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHEI
2.000	-2.000	.05542	.00509	.06052
2.000	.000	.03954	-.00167	.03787
2.000	2.000	.01984	-.00884	.01100
2.000	4.000	.00139	-.01521	-.01382
2.000	6.000	-.01734	-.02086	-.03820
2.000	8.000	-.03084	-.02463	-.05547
2.000	10.000	-.04248	-.02967	-.07216
2.000	12.000	-.05589	-.03571	-.09159
2.000	14.000	-.07060	-.04110	-.11169
2.000	16.000	-.08557	-.04633	-.13189
2.000	18.000	-.09972	-.05178	-.15151
2.000	20.000	-.11381	-.05642	-.17023
2.000	22.000	-.13056	-.06129	-.19185
2.000	24.000	-.14671	-.06653	-.21324
2.000	26.000	-.15733	-.06996	-.22729
2.000	27.000	-.16230	-.07155	-.23385
	GRADIENT	-.00918	-.00327	-.01246

RUN NO. 7/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHEI
2.500	-2.000	.03463	.00459	.03923
2.500	.000	.02192	-.00044	.02148
2.500	2.000	.00545	-.00488	.00057
2.500	4.000	-.00878	-.00950	-.01828
2.500	6.000	-.02035	-.01414	-.03449
2.500	8.000	-.02942	-.01878	-.04820
2.500	10.000	-.03965	-.02348	-.06313
2.500	12.000	-.05070	-.02783	-.07853
2.500	14.000	-.06320	-.03261	-.09581
2.500	16.000	-.07328	-.03734	-.11063
2.500	18.000	-.08457	-.04261	-.12718
2.500	20.000	-.09527	-.04766	-.14293
2.500	22.000	-.10808	-.05319	-.16127
2.500	24.000	-.12097	-.05881	-.17978
2.500	26.000	-.13375	-.06437	-.19813
2.500	27.000	-.14008	-.06685	-.20693
	GRADIENT	-.00703	-.00233	-.00936

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 55

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV005) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 80/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
4.020	-2.000	.01072	.00397	.01469
4.020	.000	.00545	.00159	.00704
4.020	2.000	-.00083	-.00122	-.00204
4.020	4.000	-.00629	-.00354	-.00983
4.020	6.000	-.01178	-.00651	-.01829
4.020	8.000	-.01684	-.00937	-.02621
4.020	10.000	-.02304	-.01252	-.03556
4.020	12.000	-.02995	-.01581	-.04576
4.020	14.000	-.03751	-.01948	-.05699
4.020	16.000	-.04471	-.02326	-.06796
4.020	18.000	-.05175	-.02725	-.07900
4.020	20.000	-.05958	-.03121	-.09079
4.020	22.000	-.06920	-.03557	-.10477
4.020	24.000	-.07985	-.04038	-.12023
4.020	26.000	-.09141	-.04555	-.13696
4.020	27.000	-.09777	-.04801	-.14578
	GRADIENT	-.00284	-.00130	-.00414

RUN NO. 14/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
5.020	-2.000	.00581	.00391	.00972
5.020	.000	.00302	.00108	.00410
5.020	2.000	-.00028	-.00056	-.00084
5.020	4.000	-.00367	-.00225	-.00592
5.020	6.000	-.00808	-.00399	-.01196
5.020	8.000	-.01211	-.00638	-.01849
5.020	10.000	-.01789	-.00911	-.02701
5.020	12.000	-.02351	-.01231	-.03582
5.020	14.000	-.02954	-.01571	-.04525
5.020	16.000	-.03561	-.01908	-.05469
5.020	18.000	-.04232	-.02230	-.06462
5.020	20.000	-.04954	-.02577	-.07532
5.020	22.000	-.05726	-.02984	-.08710
5.020	24.000	-.06703	-.03443	-.10146
5.020	26.000	-.07796	-.03943	-.11739
	GRADIENT	-.00172	-.00095	-.00267

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 56

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(ATV006) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPDGRK = 85.000 RUDDER = .000

RUN NO. 11/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE2
2.000	-2.000	.05440	.00507	.05947
2.000	.000	.03910	-.00154	.03756
2.000	2.000	.02003	-.00845	.01157
2.000	4.000	.00200	-.01466	-.01268
2.000	6.000	-.01647	-.02012	-.03559
2.000	8.000	-.03039	-.02411	-.05450
2.000	10.000	-.04242	-.02919	-.07161
2.000	12.000	-.05631	-.03567	-.09198
2.000	14.000	-.07163	-.04103	-.11266
2.000	16.000	-.08580	-.04608	-.13188
2.000	18.000	-.09860	-.05080	-.14940
2.000	20.000	-.11142	-.05652	-.17080
2.000	22.000	-.12992	-.06084	-.19066
2.000	24.000	-.14659	-.06637	-.21296
2.000	26.000	-.15540	-.06919	-.22459
2.000	27.000	-.15829	-.06989	-.22818
	GRADIENT	-.00894	-.00318	-.01212

RUN NO. 4/ 0 RN/L = 2.58 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE2
2.500	-2.000	.03536	.00509	.04045
2.500	.000	.02422	.00014	.02436
2.500	2.000	.00786	-.00413	.00373
2.500	4.000	-.00648	-.00871	-.01519
2.500	6.000	-.01824	-.01319	-.03143
2.500	8.000	-.02798	-.01779	-.04577
2.500	10.000	-.03751	-.02238	-.05989
2.500	12.000	-.04852	-.02677	-.07529
2.500	14.000	-.06093	-.03162	-.09256
2.500	16.000	-.07205	-.03654	-.10860
2.500	18.000	-.08327	-.04166	-.12494
2.500	20.000	-.09491	-.04726	-.14217
2.500	22.000	-.10709	-.05263	-.15972
2.500	24.000	-.12006	-.05813	-.17819
2.500	26.000	-.13276	-.06360	-.19636
2.500	27.000	-.13862	-.06524	-.20487
	GRADIENT	-.00690	-.00227	-.00917

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 57

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(ATV006) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BDFLAP = .000
 SPDBRK = .85.000 RUDDER = .000

RUN NO. 86/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE7
4.020	-2.000	.01017	.00381	.01398
4.020	.000	.00490	.00146	.00636
4.020	2.000	-.00125	-.00133	-.00258
4.020	4.000	-.00687	-.00363	-.01030
4.020	6.000	-.01204	-.00655	-.01859
4.020	8.000	-.01717	-.00950	-.02667
4.020	10.000	-.02334	-.01254	-.03588
4.020	12.000	-.03034	-.01585	-.04619
4.020	14.000	-.03790	-.01942	-.05732
4.020	16.000	-.04561	-.02329	-.06890
4.020	18.000	-.05365	-.02723	-.08088
4.020	20.000	-.06197	-.03132	-.09329
4.020	22.000	-.07067	-.03568	-.10635
4.020	24.000	-.08061	-.04062	-.12123
4.020	26.000	-.09198	-.04592	-.13790
4.020	27.000	-.09840	-.04863	-.14703
	GRADIENT	-.00280	-.00129	-.00409

RUN NO. 13/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE7
5.020	-2.000	.00853	.00351	.01004
5.020	.000	.00377	.00083	.00440
5.020	2.000	.00045	-.00104	-.00059
5.020	4.000	-.00323	-.00269	-.00592
5.020	6.000	-.00740	-.00422	-.01162
5.020	8.000	-.01146	-.00667	-.01813
5.020	10.000	-.01712	-.00939	-.02651
5.020	12.000	-.02274	-.01257	-.03531
5.020	14.000	-.02886	-.01600	-.04486
5.020	16.000	-.03494	-.01927	-.05422
5.020	18.000	-.04164	-.02247	-.06432
5.020	20.000	-.04875	-.02603	-.07478
5.020	22.000	-.05671	-.03001	-.08672
5.020	24.000	-.06674	-.03456	-.10130
5.020	26.000	-.07916	-.03960	-.11876
	GRADIENT	-.00174	-.00094	-.00268

ORIGINAL PAGE IS
 OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - OA115

PAGE 58

OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV007) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPDGRK = 85.000 RUDDER = .000

RUN NO. 12/ 0 RN/L = 2.50 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHE1	CHE0	CHE2	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
5.020	-3.010	-.05661	-.03086	-.08747	-.04084	-.04251	-.04205	-.04121	-.04245	-.04231
5.020	-2.011	-.05704	-.03050	-.08754	-.04060	-.04215	-.04205	-.04109	-.04209	-.04195
5.020	-1.002	-.05631	-.02956	-.08588	-.03999	-.04154	-.04181	-.04072	-.04148	-.04098
5.020	.001	-.05541	-.02847	-.08388	-.03937	-.04103	-.04155	-.04034	-.04086	-.04011
5.020	1.011	-.05551	-.02808	-.08359	-.03862	-.04140	-.04143	-.04035	-.04123	-.04072
5.020	2.015	-.05561	-.02769	-.08330	-.04048	-.04178	-.04168	-.04072	-.04160	-.04146
5.020	3.021	-.05550	-.02731	-.08281	-.04071	-.04214	-.04216	-.04108	-.04196	-.04206
	GRADIENT	.00025	.00063	.00088	.00004	.00007	.00003	.00005	.00010	.00007

OA115 B26 C9 E43 F8 R5 V8 W116

(ATV008) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPDGRK = 55.000 RUDDER = .000

RUN NO. 94/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE2
2.000	-2.000	.03369	.00513	.03882
2.000	.000	.01997	-.00177	.01821
2.000	2.000	.00329	-.00881	-.00551
2.000	4.000	-.01151	-.01537	-.02688
2.000	6.000	-.02491	-.02137	-.04629
2.000	8.000	-.03920	-.02597	-.06517
2.000	10.000	-.05304	-.03070	-.08374
2.000	12.000	-.06667	-.03605	-.10271
2.000	14.000	-.08064	-.04155	-.12219
2.000	16.000	-.09395	-.04706	-.14101
2.000	18.000	-.10730	-.05176	-.15907
2.000	20.000	-.12174	-.05718	-.17893
2.000	22.000	-.13566	-.06230	-.19797
2.000	24.000	-.14751	-.06681	-.21432
2.000	26.000	-.15891	-.07069	-.22959
2.000	27.000	-.16351	-.07183	-.23534
	GRADIENT	-.00744	-.00333	-.01077

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 59

0A115 B26 C9 E43 F8 R5 V8 W116

(ATV008) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 82/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE7
4.020	-2.000	.00739	.00388	.01127
4.020	.000	.00270	.00154	.00424
4.020	2.000	-.00258	-.00131	-.00389
4.020	4.000	-.00751	-.00368	-.01120
4.020	6.000	-.01253	-.00656	-.01909
4.020	8.000	-.01756	-.00945	-.02701
4.020	10.000	-.02371	-.01259	-.03629
4.020	12.000	-.03036	-.01590	-.04626
4.020	14.000	-.03766	-.01948	-.05714
4.020	16.000	-.04514	-.02324	-.06838
4.020	18.000	-.05313	-.02717	-.08030
4.020	20.000	-.06215	-.03127	-.09342
4.020	22.000	-.07182	-.03561	-.10743
4.020	24.000	-.08237	-.04039	-.12276
4.020	26.000	-.09410	-.04544	-.13954
4.020	27.000	-.10016	-.04817	-.14833
	GRADIENT	-.00250	-.00131	-.00381

RUN NO. 17/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE7
5.020	-2.000	.00411	.00358	.00769
5.020	.000	.00162	.00073	.00235
5.020	2.000	-.00089	-.00088	-.00176
5.020	4.000	-.00453	-.00258	-.00711
5.020	6.000	-.00836	-.00423	-.01259
5.020	8.000	-.01257	-.00671	-.01928
5.020	10.000	-.01819	-.00949	-.02768
5.020	12.000	-.02388	-.01268	-.03656
5.020	14.000	-.03011	-.01613	-.04625
5.020	16.000	-.03638	-.01953	-.05591
5.020	18.000	-.04314	-.02279	-.06593
5.020	20.000	-.05038	-.02631	-.07670
5.020	22.000	-.05805	-.03026	-.08830
5.020	24.000	-.06779	-.03476	-.10255
5.020	26.000	-.07929	-.03975	-.11905
	GRADIENT	-.00155	-.00095	-.00250

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 80

0A115 B26 C9 E43 F8 R5 V8 W116

(ATV009) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 18/ 0 RN/L = 2.54 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHE1	CHE0	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
5.020	-3.013	-.05994	-.03158	-.09153	-.04160	-.04266	-.04256	-.04257	-.04320	-.04282
5.020	-2.009	-.05952	-.03115	-.09068	-.04218	-.04299	-.04301	-.04303	-.04342	-.04316
5.020	-1.007	-.05807	-.03039	-.08846	-.04145	-.04238	-.04192	-.04230	-.04269	-.04255
5.020	.002	-.05670	-.02885	-.08555	-.04049	-.04142	-.04096	-.04146	-.04185	-.04159
5.020	1.011	-.05637	-.02839	-.08477	-.04097	-.04227	-.04144	-.04182	-.04221	-.04207
5.020	2.016	-.05613	-.02793	-.08406	-.04134	-.04252	-.04217	-.04207	-.04234	-.04220
5.020	3.030	-.05643	-.02774	-.08417	-.04134	-.04252	-.04218	-.04219	-.04258	-.04220
	GRADIENT	.00067	.00071	.00138	.00010	.00005	.00012	.00013	.00016	.00015

0A115 B26 C9 E43 F8 M7 N28 R5 V8 W116

(ATV010) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 95/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
2.000	-2.000	.04691	.00529	.05220
2.000	.000	.03252	-.00152	.03101
2.000	2.000	.01410	-.00868	.00542
2.000	4.000	-.00256	-.01537	-.01793
2.000	6.000	-.01896	-.02099	-.03995
2.000	8.000	-.03351	-.02521	-.05873
2.000	10.000	-.04575	-.03000	-.07576
2.000	12.000	-.06062	-.03620	-.09682
2.000	14.000	-.07377	-.04161	-.11538
2.000	16.000	-.08849	-.04674	-.13523
2.000	18.000	-.10164	-.05169	-.15334
2.000	20.000	-.11467	-.05628	-.17095
2.000	22.000	-.13120	-.06198	-.19318
2.000	24.000	-.14562	-.06675	-.21237
2.000	26.000	-.15733	-.07018	-.22751
2.000	27.000	-.16049	-.07046	-.23094
	GRADIENT	-.00834	-.00332	-.01166

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 61

0A115 B26 C9 E43 F8 H7 N28 R5 V8 W116

(ATV010) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 83/ 0 RN/L = 2.65 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
4.020	-2.000	.00882	.00419	.01302
4.020	.000	.00379	.00181	.00560
4.020	2.000	-.00194	-.00101	-.00295
4.020	4.000	-.00716	-.00336	-.01051
4.020	6.000	-.01234	-.00631	-.01864
4.020	8.000	-.01733	-.00917	-.02650
4.020	10.000	-.02351	-.01232	-.03583
4.020	12.000	-.03059	-.01560	-.04619
4.020	14.000	-.03826	-.01922	-.05748
4.020	16.000	-.04592	-.02305	-.06897
4.020	18.000	-.05385	-.02704	-.08089
4.020	20.000	-.06223	-.03117	-.09340
4.020	22.000	-.07136	-.03552	-.10688
4.020	24.000	-.08183	-.04041	-.12225
4.020	26.000	-.09319	-.04549	-.13868
4.020	27.000	-.09961	-.04806	-.14767
	GRADIENT	-.00266	-.00131	-.00397

RUN NO. 19/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
5.020	-2.000	.00424	.00390	.00815
5.020	.000	.00154	.00109	.00263
5.020	2.000	-.00141	-.00056	-.00197
5.020	4.000	-.00488	-.00227	-.00715
5.020	6.000	-.00877	-.00392	-.01269
5.020	8.000	-.01291	-.00642	-.01933
5.020	10.000	-.01861	-.00916	-.02777
5.020	12.000	-.02457	-.01238	-.03696
5.020	14.000	-.03076	-.01586	-.04662
5.020	16.000	-.03678	-.01919	-.05597
5.020	18.000	-.04357	-.02248	-.06605
5.020	20.000	-.05063	-.02601	-.07664
5.020	22.000	-.05801	-.03000	-.08801
5.020	24.000	-.06742	-.03460	-.10202
5.020	26.000	-.07858	-.03971	-.11828
	GRADIENT	-.00162	-.00095	-.00257

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - OA115

PAGE 62

OA115 B26 C9 E43 F8 M7 N28 R5 V8 W116

(ATV011) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 20/ 0 RN/L = 2.54 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHEI	CHEO	CHET	CPSC	CP81	CP82	CP83	CP84	CP85
5.020	-3.004	-.05975	-.03122	-.09097	-.04084	-.04239	-.04241	-.04218	-.04233	-.04231
5.020	-2.003	-.05860	-.03074	-.08934	-.04096	-.04239	-.04253	-.04206	-.04221	-.04195
5.020	-1.005	-.05829	-.03016	-.08845	-.04022	-.04188	-.04228	-.04168	-.04183	-.04120
5.020	.001	-.05649	-.02862	-.08511	-.03976	-.04118	-.04145	-.04098	-.04112	-.04086
5.020	1.001	-.05601	-.02808	-.08409	-.04011	-.04178	-.04168	-.04121	-.04148	-.04158
5.020	2.011	-.05605	-.02777	-.08382	-.04110	-.04227	-.04230	-.04158	-.04185	-.04244
5.020	3.020	-.05642	-.02742	-.08385	-.04121	-.04226	-.04241	-.04169	-.04184	-.04243
	GRADIENT	.00062	.00069	.00131	-.00005	.00002	.00004	.00010	.00009	-.00006

OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV012) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = -10.000

RUN NO. 102/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 8.00

MACH	ALPHA	CHEI	CHEO	CHET
2.000	-2.000	.05043	.00508	.05551
2.000	.000	.03429	-.00169	.03260
2.000	2.000	.01694	-.00869	.00825
2.000	4.000	-.00023	-.01505	-.01528
2.000	6.000	-.01704	-.02083	-.03787
2.000	8.000	-.03166	-.02494	-.05660
2.000	10.000	-.04285	-.02962	-.07247
2.000	12.000	-.05675	-.03550	-.09225
2.000	14.000	-.07215	-.04100	-.11316
2.000	16.000	-.08746	-.04655	-.13401
2.000	18.000	-.10050	-.05103	-.15153
2.000	20.000	-.11518	-.05638	-.17156
2.000	22.000	-.13096	-.06162	-.19258
2.000	24.000	-.14650	-.06667	-.21317
2.000	26.000	-.15752	-.06963	-.22715
2.000	27.000	-.16187	-.07119	-.23306
	GRADIENT	-.00847	-.00326	-.01173

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 63

0A115 826 C9 E43 F8 M18 N28 R5 V8 W118

(ATV012) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPD9RK = 55.000 RUDDER = -10.000

RUN NO. 84/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
4.020	-2.000	.01001	.00429	.01429
4.020	.000	.00445	.00187	.00632
4.020	2.000	-.00148	-.00097	-.00245
4.020	4.000	-.00674	-.00329	-.01004
4.020	6.000	-.01214	-.00624	-.01838
4.020	8.000	-.01718	-.00908	-.02626
4.020	10.000	-.02341	-.01222	-.03562
4.020	12.000	-.03023	-.01549	-.04572
4.020	14.000	-.03781	-.01907	-.05689
4.020	16.000	-.04541	-.02290	-.06831
4.020	18.000	-.05314	-.02678	-.07992
4.020	20.000	-.06166	-.03091	-.09258
4.020	22.000	-.07137	-.03523	-.10660
4.020	24.000	-.08211	-.04016	-.12227
4.020	26.000	-.09363	-.04539	-.13901
4.020	27.000	-.09981	-.04808	-.14789
	GRADIENT	-.00277	-.00131	-.00408

RUN NO. 21/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
5.020	-2.000	.00563	.00387	.00950
5.020	.000	.00297	.00109	.00406
5.020	2.000	-.00032	-.00058	-.00090
5.020	4.000	-.00395	-.00233	-.00627
5.020	6.000	-.00825	-.00395	-.01220
5.020	8.000	-.01231	-.00642	-.01873
5.020	10.000	-.01814	-.00920	-.02734
5.020	12.000	-.02401	-.01240	-.03641
5.020	14.000	-.03008	-.01582	-.04590
5.020	16.000	-.03625	-.01923	-.05548
5.020	18.000	-.04310	-.02248	-.06559
5.020	20.000	-.05021	-.02605	-.07627
5.020	22.000	-.05781	-.03007	-.08788
5.020	24.000	-.06733	-.03462	-.10195
5.020	26.000	-.07791	-.03971	-.11762
	GRADIENT	-.00173	-.00095	-.00269

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 64

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV013) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = -10.000

RUN NO. 22/ 0 RN/L = 2.54 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHE1	CHEO	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
5.020	-3.016	-.05842	-.03129	-.08971	-.04070	-.04274	-.04203	-.04168	-.04232	-.04242
5.020	-2.017	-.05803	-.03084	-.08887	-.04035	-.04227	-.04192	-.04133	-.04184	-.04182
5.020	-1.005	-.05699	-.02986	-.08685	-.04000	-.04154	-.04181	-.04085	-.04135	-.04110
5.020	-.003	-.05598	-.02875	-.08472	-.03900	-.04091	-.04155	-.04034	-.04049	-.03999
5.020	1.005	-.05582	-.02821	-.08404	-.03950	-.04141	-.04144	-.04048	-.04099	-.04073
5.020	2.017	-.05621	-.02796	-.08417	-.04022	-.04177	-.04179	-.04083	-.04134	-.04157
5.020	3.012	-.05631	-.02757	-.08388	-.04059	-.04214	-.04228	-.04132	-.04171	-.04218
	GRADIENT	.00040	.00066	.00105	.00004	.00010	-.00000	.00009	.00011	.00006

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV014) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 85.000 RUDDER = -10.000

RUN NO. 103/ 0 RN/L = 2.35 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHEO	CHET
2.000	-2.000	.05047	.00551	.05598
2.000	.000	.03460	-.00143	.03316
2.000	2.000	.01688	-.00830	.00857
2.000	4.000	-.00035	-.01471	-.01505
2.000	6.000	-.01666	-.02024	-.03690
2.000	8.000	-.03100	-.02449	-.05549
2.000	10.000	-.04253	-.02934	-.07186
2.000	12.000	-.05633	-.03522	-.09154
2.000	14.000	-.07172	-.04087	-.11258
2.000	16.000	-.08622	-.04583	-.13205
2.000	18.000	-.10068	-.05113	-.15181
2.000	20.000	-.11560	-.05645	-.17204
2.000	22.000	-.13037	-.06109	-.19146
2.000	24.000	-.14523	-.06583	-.21106
2.000	26.000	-.15592	-.06878	-.22471
2.000	27.000	-.15999	-.07035	-.23034
	GRADIENT	-.00846	-.00324	-.01170

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 65

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(ATV014) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPOBRK = 85.000 RUDDER = -10.000

RUN NO. 85/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
4.020	-2.000	.01051	.00445	.01497
4.020	.000	.00513	.00205	.00719
4.020	2.000	-.00111	-.00073	-.00184
4.020	4.000	-.00656	-.00304	-.00961
4.020	6.000	-.01207	-.00598	-.01805
4.020	8.000	-.01720	-.00884	-.02604
4.020	10.000	-.02357	-.01199	-.03557
4.020	12.000	-.03050	-.01528	-.04577
4.020	14.000	-.03808	-.01886	-.05694
4.020	16.000	-.04587	-.02266	-.06853
4.020	18.000	-.05379	-.02664	-.08043
4.020	20.000	-.06169	-.03067	-.09236
4.020	22.000	-.07024	-.03509	-.10533
4.020	24.000	-.08069	-.03997	-.12066
4.020	26.000	-.09182	-.04516	-.13698
4.020	27.000	-.09771	-.04774	-.14545
	GRADIENT	-.00284	-.00130	-.00414

RUN NO. 23/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
5.020	-2.000	.00575	.00381	.00957
5.020	.000	.00312	.00100	.00411
5.020	2.000	-.00025	-.00069	-.00094
5.020	4.000	-.00382	-.00241	-.00623
5.020	6.000	-.00816	-.00404	-.01220
5.020	8.000	-.01219	-.00654	-.01873
5.020	10.000	-.01790	-.00931	-.02720
5.020	12.000	-.02350	-.01253	-.03614
5.020	14.000	-.02970	-.01596	-.04566
5.020	16.000	-.03582	-.01934	-.05516
5.020	18.000	-.04266	-.02259	-.06525
5.020	20.000	-.04955	-.02615	-.07569
5.020	22.000	-.05713	-.03018	-.08731
5.020	24.000	-.06694	-.03478	-.10172
5.020	26.000	-.07783	-.03986	-.11769
	GRADIENT	-.00174	-.00096	-.00269

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 66

0A115 826 C9 E43 F8 M16 N28 R5 V8 W118

(ATV015) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 BOFLAP = .000
 SPDBRK = 85.000 RUDDER = -10.000

RUN NO. 105/ 0 RN/L = 2.33 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHE1	CHE0	CHET	CPSC	CP81	CP82	CP83	CP84	CP85
2.000	-3.103	-.13649	-.06013	-.19663	-.20469	-.20810	-.14421	-.21112	-.21298	-.20667
2.000	-2.070	-.13733	-.06003	-.19736	-.21593	-.21671	-.16654	-.22270	-.22436	-.22320
2.000	-1.034	-.13740	-.06024	-.19764	-.22099	-.22265	-.18201	-.22694	-.22756	-.22434
2.000	-.001	-.13867	-.06086	-.19953	-.21941	-.22481	-.19556	-.22789	-.22989	-.22540
2.000	1.041	-.13856	-.06095	-.19951	-.21824	-.22398	-.20025	-.22638	-.22970	-.22389
2.000	2.069	-.13746	-.06151	-.19897	-.21812	-.22282	-.19696	-.22419	-.22596	-.22176
2.000	3.097	-.13615	-.06121	-.19736	-.21300	-.21430	-.22664	-.22288	-.22213	-.21970
	GRADIENT	-.00001	-.00024	-.00025	-.00092	-.00111	-.01127	-.00130	-.00113	-.00124

RUN NO. 24/ 0 RN/L = 2.54 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHE1	CHE0	CHET	CPSC	CP81	CP82	CP83	CP84	CP85
5.020	-2.017	-.05777	-.03090	-.08867	-.04021	-.04176	-.04154	-.04095	-.04170	-.04169
5.020	-1.014	-.05712	-.03003	-.08716	-.03973	-.04103	-.04117	-.04046	-.04110	-.04095
5.020	-.003	-.05668	-.02899	-.08568	-.03912	-.04090	-.04093	-.04021	-.04061	-.04010
5.020	1.009	-.05602	-.02848	-.08450	-.03960	-.04152	-.04105	-.04033	-.04134	-.04083
5.020	2.012	-.05555	-.02795	-.08350	-.04034	-.04177	-.04155	-.04083	-.04159	-.04169
5.020	3.012	-.05589	-.02766	-.08355	-.04096	-.04226	-.04241	-.04145	-.04220	-.04243
	GRADIENT	.00042	.00065	.00107	-.00017	-.00015	-.00016	-.00011	-.00013	-.00019

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 67

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(ATV016) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -2.000
ELV-LI = -2.000 ELV-R1 = 2.000
ELV-RO = 2.000 BOFLAP = .000
SPDBRK = 85.000 RUDDER = .000

RUN NO. 25/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
5.020	-2.000	.00740	.00602	.01341
5.020	.000	.00465	.00271	.00737
5.020	2.000	.00113	.00070	.00183
5.020	4.000	-.00183	-.00078	-.00261
5.020	6.000	-.00564	-.00274	-.00838
5.020	8.000	-.00930	-.00437	-.01367
5.020	10.000	-.01430	-.00680	-.02110
5.020	12.000	-.01959	-.00964	-.02923
5.020	14.000	-.02488	-.01258	-.03746
5.020	16.000	-.02994	-.01546	-.04539
5.020	18.000	-.03584	-.01833	-.05418
5.020	20.000	-.04199	-.02133	-.06332
5.020	22.000	-.04875	-.02479	-.07354
5.020	24.000	-.05751	-.02880	-.08631
5.020	26.000	-.06770	-.03328	-.10098
	GRADIENT	-.00163	-.00105	-.00268

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 88

0A115 826 C8 E43 F8 M16 N28 R5 V8 W118

(ATV017) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -5.000
ELV-LI = -5.000 ELV-R1 = 5.000
ELV-RO = 5.000 BDFLAP = .000
SPOBRK = 85.000 RUDDER = .000

RUN NO. 26/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
5.020	-2.000	.01130	.00894	.02024
5.020	.000	.00802	.00501	.01303
5.020	2.000	.00369	.00258	.00627
5.020	4.000	.00077	.00075	.00152
5.020	6.000	-.00229	-.00091	-.00320
5.020	8.000	-.00538	-.00282	-.00820
5.020	10.000	-.00945	-.00445	-.01390
5.020	12.000	-.01415	-.00695	-.02110
5.020	14.000	-.01876	-.00956	-.02832
5.020	16.000	-.02341	-.01207	-.03548
5.020	18.000	-.02856	-.01445	-.04301
5.020	20.000	-.03392	-.01702	-.05094
5.020	22.000	-.03933	-.01995	-.05928
5.020	24.000	-.04659	-.02339	-.06997
5.020	26.000	-.05507	-.02725	-.08232
	GRADIENT	-.00172	-.00120	-.00292

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 69

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV018) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -10.000
 ELV-LI = -10.000 ELV-RI = 10.000
 ELV-RO = 10.000 BOFLAP = .000
 SPDBRK = 85.000 RUDDER = .000

RUN NO. 27/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHEO	CHET
5.020	-2.000	.02022	.01635	.03657
5.020	.000	.01529	.01082	.02611
5.020	2.000	.00908	.00755	.01662
5.020	4.000	.00415	.00492	.00906
5.020	6.000	.00148	.00273	.00421
5.020	8.000	.00004	.00082	.00086
5.020	10.000	-.00228	-.00084	-.00312
5.020	12.000	-.00550	-.00292	-.00842
5.020	14.000	-.00903	-.00446	-.01349
5.020	16.000	-.01178	-.00625	-.01804
5.020	18.000	-.01540	-.00801	-.02340
5.020	20.000	-.01891	-.00972	-.02862
5.020	22.000	-.02243	-.01180	-.03423
5.020	24.000	-.02771	-.01410	-.04181
5.020	26.000	-.03382	-.01682	-.05065
	GRADIENT	-.00243	-.00165	-.00409

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV019) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = -10.000
 ELV-LI = -10.000 ELV-RI = 10.000
 ELV-RO = 10.000 BOFLAP = .000
 SPDBRK = 85.000 RUDDER = .000

RUN NO. 28/ 0 RN/L = 2.54 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHE1	CHEO	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
5.020	-3.021	-.01981	-.01264	-.03225	-.04141	-.04248	-.04262	-.04178	-.04266	-.04154
5.020	-2.018	-.02032	-.01230	-.03262	-.04081	-.04199	-.04226	-.04154	-.04193	-.04118
5.020	-1.015	-.02052	-.01177	-.03229	-.04010	-.04152	-.04203	-.04095	-.04134	-.04047
5.020	-.006	-.02047	-.01132	-.03179	-.03995	-.04126	-.04177	-.04069	-.04120	-.04033
5.020	1.001	-.02093	-.01119	-.03211	-.03971	-.04137	-.04140	-.04056	-.04120	-.04069
5.020	2.006	-.02190	-.01108	-.03298	-.04020	-.04212	-.04202	-.04118	-.04169	-.04094
5.020	3.011	-.02265	-.01093	-.03358	-.04034	-.04225	-.04252	-.04131	-.04158	-.04144
	GRADIENT	-.00045	.00029	-.00016	.00017	.00002	.00005	.00009	.00014	.00002

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 70

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(ATV020) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 20.000
 ELV-LI = 20.000 ELV-RI = 20.000
 ELV-RO = 20.000 BOFLAP = .000
 SPDGRK = 55085.000 RUDDER = .000

RUN NO. 97/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
2.000	-2.000	-.11663	-.04986	-.16649
2.000	.000	-.12814	-.05819	-.18632
2.000	2.000	-.14221	-.06603	-.20824
2.000	4.000	-.15633	-.07399	-.23032
2.000	6.000	-.17113	-.08227	-.25340
2.000	8.000	-.18837	-.09083	-.27920
2.000	10.000	-.20620	-.09958	-.30578
2.000	12.000	-.22654	-.10929	-.33583
2.000	14.000	-.24532	-.11847	-.36379
2.000	16.000	-.26319	-.12683	-.39002
2.000	18.000	-.28254	-.13563	-.41818
2.000	20.000	-.30331	-.14558	-.44888
2.000	22.000	-.31824	-.15204	-.47027
2.000	24.000	-.33452	-.15842	-.49293
2.000	26.000	-.35013	-.16359	-.51372
2.000	27.000	-.35828	-.16603	-.52432
	GRADIENT	-.00686	-.00403	-.01089

RUN NO. 97/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
4.020	-2.000	-.04315	-.02098	-.06414
4.020	.000	-.05479	-.02581	-.08060
4.020	2.000	-.06780	-.03206	-.09986
4.020	4.000	-.08199	-.03927	-.12126
4.020	6.000	-.09743	-.04732	-.14475
4.020	8.000	-.11396	-.05558	-.16954
4.020	10.000	-.13266	-.06441	-.19707
4.020	12.000	-.15326	-.07358	-.22684
4.020	14.000	-.17558	-.08312	-.25870
4.020	16.000	-.19811	-.09333	-.29145
4.020	18.000	-.22079	-.10354	-.32432
4.020	20.000	-.24390	-.11380	-.35770
4.020	22.000	-.26642	-.12445	-.39087
4.020	24.000	-.28995	-.13542	-.42536
4.020	26.000	-.31309	-.14657	-.45965
4.020	27.000	-.32525	-.15229	-.47753
	GRADIENT	-.00679	-.00331	-.01009

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 71

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV020) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
LREF = 474.8100 IN. YMRP = .0000 IN.Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-L0 = 20.000
ELV-L1 = 20.000 ELV-R1 = 20.000
ELV-R0 = 20.000 BDFLAP = .000
SPOBRK = 55085.000 RUDDER = .000

RUN NO. 55/ 0 RN/L = 2.61 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
5.020	-2.000	-.02441	-.01652	-.04093
5.020	.000	-.03864	-.02087	-.05951
5.020	2.000	-.05334	-.02612	-.07946
5.020	4.000	-.06895	-.03212	-.10108
5.020	6.000	-.08673	-.03944	-.12617
5.020	8.000	-.10622	-.04750	-.15372
5.020	10.000	-.12814	-.05664	-.18477
5.020	12.000	-.15222	-.06629	-.21851
5.020	14.000	-.17729	-.07659	-.25389
5.020	16.000	-.20187	-.08681	-.28869
5.020	18.000	-.22552	-.09659	-.32211
5.020	20.000	-.24801	-.10661	-.35462
5.020	22.000	-.26991	-.11686	-.38677
5.020	24.000	-.29332	-.12783	-.42115
5.020	26.000	-.31752	-.13893	-.45645
	GRADIENT	-.00775	-.00285	-.01060

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 72

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(ATV021) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
LREF = 474.8100 IN. YMRP = .0000 IN.Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
ELV-LI = .000 ELV-RI = .000
ELV-RO = 10.000 BOFLAP = .000
SPDRK = 55085.000 RUDDER = .000

RUN NO. 56/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE2
5.020	-2.000	.00573	-.00367	.00206
5.020	.000	.00319	-.00598	-.00279
5.020	2.000	-.00017	-.00870	-.00887
5.020	4.000	-.00395	-.01173	-.01568
5.020	6.000	-.00824	-.01540	-.02364
5.020	8.000	-.01235	-.01954	-.03188
5.020	10.000	-.01811	-.02440	-.04251
5.020	12.000	-.02395	-.02985	-.05380
5.020	14.000	-.03015	-.03572	-.06587
5.020	16.000	-.03652	-.04187	-.07839
5.020	18.000	-.04331	-.04763	-.09094
5.020	20.000	-.05036	-.05343	-.10378
5.020	22.000	-.05861	-.05990	-.11851
5.020	24.000	-.06838	-.06685	-.13523
5.020	26.000	-.07949	-.07429	-.15377
	GRADIENT	-.00175	-.00146	-.00321

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 73

0A115 B26 C9 E43 F8 M16 N38 R5 V8 W116

(ATV022) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = -10.000 BOFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 101/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
2.000	-2.000	.04961	-.01899	.03062
2.000	.000	.03368	-.02712	.00654
2.000	2.000	.01588	-.03417	-.01829
2.000	4.000	-.00168	-.04011	-.04179
2.000	6.000	-.01837	-.04538	-.06375
2.000	8.000	-.03289	-.04998	-.08287
2.000	10.000	-.04507	-.05615	-.10121
2.000	12.000	-.05848	-.06246	-.12094
2.000	14.000	-.07446	-.06868	-.14315
2.000	16.000	-.08851	-.07423	-.16274
2.000	18.000	-.10331	-.07992	-.18323
2.000	20.000	-.11824	-.08632	-.20456
2.000	22.000	-.13348	-.09220	-.22569
2.000	24.000	-.14832	-.09791	-.24623
2.000	26.000	-.16126	-.10220	-.26346
2.000	27.000	-.16681	-.10457	-.27138
	GRADIENT	-.00857	-.00329	-.01185

RUN NO. 89/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
4.020	-2.000	.01020	-.00543	.00476
4.020	.000	.00495	-.00799	-.00304
4.020	2.000	-.00121	-.01174	-.01295
4.020	4.000	-.00674	-.01582	-.02256
4.020	6.000	-.01212	-.02030	-.03242
4.020	8.000	-.01711	-.02490	-.04201
4.020	10.000	-.02347	-.02993	-.05341
4.020	12.000	-.03024	-.03536	-.06559
4.020	14.000	-.03779	-.04124	-.07903
4.020	16.000	-.04526	-.04738	-.09265
4.020	18.000	-.05279	-.05360	-.10639
4.020	20.000	-.06081	-.06012	-.12093
4.020	22.000	-.07034	-.06677	-.13712
4.020	24.000	-.08084	-.07380	-.15464
4.020	26.000	-.09191	-.08114	-.17305
4.020	27.000	-.09782	-.08479	-.18262
	GRADIENT	-.00282	-.00189	-.00469

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 74

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(ATV022) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = -10.000 BOFLAP = .000
 SPDRK = 55085.000 RUDDER = .000

RUN NO. 57/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
5.020	-2.000	.00524	-.00372	.00152
5.020	.000	.00255	-.00603	-.00347
5.020	2.000	-.00079	-.00875	-.00955
5.020	4.000	-.00435	-.01183	-.01618
5.020	6.000	-.00836	-.01544	-.02380
5.020	8.000	-.01254	-.01958	-.03212
5.020	10.000	-.01815	-.02437	-.04252
5.020	12.000	-.02385	-.02987	-.05372
5.020	14.000	-.02987	-.03572	-.06559
5.020	16.000	-.03626	-.04190	-.07816
5.020	18.000	-.04297	-.04768	-.09066
5.020	20.000	-.05017	-.05353	-.10370
5.020	22.000	-.05833	-.06001	-.11834
5.020	24.000	-.06844	-.06689	-.13533
5.020	26.000	-.07982	-.07436	-.15418
	GRADIENT	-.00170	-.00146	-.00317

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(ATV023) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = 10.000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = -10.000 BOFLAP = .000
 SPDRK = 55085.000 RUDDER = .000

RUN NO. 58/ 0 RN/L = 2.57 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHEI	CHEO	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
5.020	-3.025	-.05939	-.06015	-.11955	-.04083	-.04238	-.04191	-.04144	-.04293	-.04242
5.020	-2.017	-.05858	-.05987	-.11845	-.04044	-.04187	-.04165	-.04105	-.04218	-.04204
5.020	-1.014	-.05742	-.05886	-.11629	-.04058	-.04164	-.04166	-.04082	-.04183	-.04169
5.020	.004	-.05677	-.05723	-.11400	-.04020	-.04138	-.04153	-.04044	-.04157	-.04082
5.020	1.019	-.05622	-.05704	-.11326	-.03998	-.04141	-.04119	-.04047	-.04172	-.04084
5.020	2.030	-.05650	-.05675	-.11325	-.04009	-.04164	-.04129	-.04082	-.04207	-.04132
5.020	3.039	-.05659	-.05688	-.11348	-.04084	-.04202	-.04180	-.04108	-.04233	-.04243
	GRADIENT	.00049	.00063	.00112	.00004	.00006	.00005	.00007	.00007	.00008

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 75

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W118

(ATV024) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -10.000
ELV-LI = .000 ELV-RI = .000
ELV-RO = -10.000 BDFLAP = .900
SPOBRK = 55085.000 RUDDER = .000

RUN NO. 59/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
5.020	-2.000	.00603	.01655	.02258
5.020	.000	.00347	.01106	.01452
5.020	2.000	-.00008	.00788	.00779
5.020	4.000	-.00358	.00536	.00178
5.020	6.000	-.00797	.00301	-.00496
5.020	8.000	-.01215	.00100	-.01115
5.020	10.000	-.01790	-.00080	-.01869
5.020	12.000	-.02362	-.00288	-.02650
5.020	14.000	-.02975	-.00451	-.03425
5.020	16.000	-.03597	-.00621	-.04218
5.020	18.000	-.04298	-.00780	-.05078
5.020	20.000	-.05000	-.00960	-.05960
5.020	22.000	-.05826	-.01172	-.06998
5.020	24.000	-.06791	-.01383	-.08174
5.020	26.000	-.07889	-.01635	-.09524
	GRADIENT	-.00175	-.00164	-.00339

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 76

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(ATV025) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -10.000
 ELV-L1 = -10.000 ELV-R1 = -10.000
 ELV-R0 = -10.000 BOFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 100/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
2.000	-2.000	.13460	.03285	.16745
2.000	.000	.12205	.02463	.14669
2.000	2.000	.09950	.01586	.11537
2.000	4.000	.07520	.00898	.08418
2.000	6.000	.05095	.00325	.05421
2.000	8.000	.02828	-.00161	.02667
2.000	10.000	.01098	-.00627	.00471
2.000	12.000	.00152	-.01087	-.00935
2.000	14.000	-.00873	-.01547	-.02420
2.000	16.000	-.02123	-.02038	-.04161
2.000	18.000	-.03418	-.02505	-.05923
2.000	20.000	-.04948	-.02955	-.07904
2.000	22.000	-.06353	-.03299	-.09662
2.000	24.000	-.07722	-.03690	-.11413
2.000	26.000	-.08732	-.03964	-.12697
2.000	27.000	-.08979	-.04052	-.13032
	GRADIENT	-.01071	-.00374	-.01445

RUN NO. 88/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
4.020	-2.000	.03377	.01724	.05102
4.020	.000	.02693	.01395	.04088
4.020	2.000	.01865	.00957	.02822
4.020	4.000	.00942	.00609	.01551
4.020	6.000	.00290	.00357	.00647
4.020	8.000	.00022	.00132	.00155
4.020	10.000	-.00262	-.00102	-.00364
4.020	12.000	-.00660	-.00289	-.00949
4.020	14.000	-.01147	-.00519	-.01667
4.020	16.000	-.01591	-.00753	-.02344
4.020	18.000	-.01984	-.01000	-.02983
4.020	20.000	-.02377	-.01244	-.03621
4.020	22.000	-.02886	-.01512	-.04399
4.020	24.000	-.03520	-.01805	-.05325
4.020	26.000	-.04205	-.02122	-.06327
4.020	27.000	-.04551	-.02293	-.06843
	GRADIENT	-.00396	-.00176	-.00572

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 77

0A115 826 C9 E43 F8 M16 N28 R5 V9 W118

(ATV025) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XC
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -10.000
 ELV-LI = -10.000 ELV-RI = -10.000
 ELV-RO = -10.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 60/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHEO	CHET
5.020	-2.000	.01981	.01652	.03633
5.020	.000	.01496	.01111	.02607
5.020	2.000	.00880	.00782	.01662
5.020	4.000	.00390	.00521	.00911
5.020	6.000	.00078	.00293	.00370
5.020	8.000	-.00045	.00100	.00054
5.020	10.000	-.00273	-.00072	-.00345
5.020	12.000	-.00580	-.00280	-.00860
5.020	14.000	-.00923	-.00429	-.01352
5.020	16.000	-.01202	-.00608	-.01810
5.020	18.000	-.01563	-.00775	-.02338
5.020	20.000	-.01915	-.00951	-.02866
5.020	22.000	-.02289	-.01168	-.03457
5.020	24.000	-.02812	-.01374	-.04186
5.020	26.000	-.03404	-.01637	-.05041
	GRADIENT	-.00246	-.00165	-.00411

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 78

0A115 826 C9 E43 F8 M18 N28 R5 V8 W118

(ATV026) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-L0 = -5.000
 ELV-L1 = -20.000 ELV-R1 = -20.000
 ELV-S0 = -5.000 BOFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 61/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
5.020	-2.000	.04530	.00944	.05474
5.020	.000	.03656	.00535	.04191
5.020	2.000	.02486	.00285	.02771
5.020	4.000	.01592	.00095	.01687
5.020	6.000	.00849	-.00076	.00774
5.020	8.000	.00623	-.00264	.00359
5.020	10.000	.00522	-.00413	.00108
5.020	12.000	.00386	-.00656	-.00270
5.020	14.000	.00178	-.00900	-.00722
5.020	16.000	-.00029	-.01145	-.01174
5.020	18.000	-.00254	-.01367	-.01621
5.020	20.000	-.00420	-.01611	-.02031
5.020	22.000	-.00595	-.01874	-.02469
5.020	24.000	-.00856	-.02208	-.03065
5.020	26.000	-.01187	-.02573	-.03760
	GRADIENT	-.00471	-.00124	-.00595

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 79

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(ATV027) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -20.000
 ELV-LI = -20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BDFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 98/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
2.000	-2.000	.19992	.05830	.25823
2.000	.000	.18725	.04669	.23394
2.000	2.000	.16970	.03721	.20691
2.000	4.000	.13430	.02690	.16120
2.000	6.000	.10231	.02074	.12306
2.000	8.000	.07776	.01613	.09389
2.000	10.000	.06423	.01183	.07606
2.000	12.000	.05522	.00778	.06300
2.000	14.000	.04605	.00313	.04919
2.000	16.000	.03059	-.00165	.02894
2.000	18.000	.01542	-.00526	.01017
2.000	20.000	-.00099	-.00906	-.01005
2.000	22.000	-.01480	-.01261	-.02741
2.000	24.000	-.02650	-.01602	-.04251
2.000	26.000	-.03394	-.01844	-.05238
2.000	27.000	-.03603	-.01930	-.05533
	GRADIENT	-.01241	-.00475	-.01715

RUN NO. 91/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
4.020	-2.000	.07044	.04042	.11087
4.020	.000	.06026	.03585	.09611
4.020	2.000	.04919	.02911	.07830
4.020	4.000	.03256	.02369	.05626
4.020	6.000	.01930	.01956	.03886
4.020	8.000	.01262	.01612	.02874
4.020	10.000	.01250	.01325	.02574
4.020	12.000	.00906	.01054	.01960
4.020	14.000	.00427	.00769	.01196
4.020	16.000	-.00003	.00516	.00513
4.020	18.000	-.00275	.00307	.00033
4.020	20.000	-.00451	.00097	-.00354
4.020	22.000	-.00740	-.00098	-.00838
4.020	24.000	-.01154	-.00256	-.01411
4.020	26.000	-.01566	-.00481	-.02047
4.020	27.000	-.01742	-.00594	-.02336
	GRADIENT	-.00650	-.00269	-.00919

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 80

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV027) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
LREF = 474.8100 IN. YMRP = .0000 IN.Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -20.000
ELV-LI = -20.000 ELV-RI = -20.000
ELV-RO = -20.000 BDFLAP = .000
SPDBRK = 55085.000 RUDDER = .000

RUN NO. 62/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
5.020	-2.000	.04538	.03999	.08537
5.020	.000	.03598	.03132	.06728
5.020	2.000	.02462	.02486	.04948
5.020	4.000	.01587	.02032	.03619
5.020	6.000	.00871	.01606	.02477
5.020	8.000	.00632	.01264	.01896
5.020	10.000	.00516	.00864	.01380
5.020	12.000	.00422	.00608	.01030
5.020	14.000	.00221	.00368	.00589
5.020	16.000	.00018	.00188	.00206
5.020	18.000	-.00234	.00040	-.00194
5.020	20.000	-.00379	-.00083	-.00462
5.020	22.000	-.00539	-.00219	-.00758
5.020	24.000	-.00819	-.00322	-.01140
5.020	26.000	-.01138	-.00419	-.01557
	GRADIENT	-.00467	-.00294	-.00761

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 81

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV028) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -10.000
ELV-LI = -40.000 ELV-RI = -40.000
ELV-RO = -10.000 BDFLAP = .000
SPOBRK = 55085.000 RUDDER = .000

RUN NO. 63/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE2
5.020	-2.000	.09214	.01605	.10819
5.020	.000	.07226	.01016	.08242
5.020	2.000	.05790	.00680	.06470
5.020	4.000	.04496	.00465	.04961
5.020	6.000	.03195	.00258	.03452
5.020	8.000	.02672	.00088	.02760
5.020	10.000	.02192	-.00079	.02113
5.020	12.000	.01906	-.00265	.01641
5.020	14.000	.01513	-.00416	.01097
5.020	16.000	.01168	-.00589	.00579
5.020	18.000	.00865	-.00763	.00103
5.020	20.000	.00586	-.00940	-.00354
5.020	22.000	.00462	-.01135	-.00673
5.020	24.000	.00376	-.01360	-.00984
5.020	26.000	.00352	-.01626	-.01274
	GRADIENT	-.00738	-.00162	-.00901

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 82

0A115 B26 C9 E43 F8 H16 N28 R5 V8 H116

(ATV029) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -40.000
 ELV-LI = -40.000 ELV-R1 = -40.000
 ELV-RO = -40.000 BDFLAP = .000
 SPOBRK = 55085.000 RUDDER = .000

RUN NO. 93/ 0 RN/L = 2.29 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
2.000	-2.000	.31238	.05952	.37190
2.000	.000	.28190	.05061	.33251
2.000	2.000	.25531	.03971	.29502
2.000	4.000	.21185	.03203	.24388
2.000	6.000	.15967	.03040	.19007
2.000	8.000	.12639	.02893	.15532
2.000	10.000	.11240	.02258	.13499
2.000	12.000	.11257	.02153	.13410
2.000	14.000	.10611	.01684	.12295
2.000	16.000	.09702	.01170	.10872
2.000	18.000	.08178	.00961	.09138
2.000	20.000	.05818	.00841	.06660
2.000	22.000	.04051	.00617	.04668
2.000	24.000	.02801	.00445	.03247
2.000	26.000	.02115	.00347	.02463
2.000	27.000	.01641	.00315	.01956
GRADIENT		-.01877	-.00384	-.02261

RUN NO. 92/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
4.020	-2.000	.09943	.09720	.19663
4.020	.000	.09464	.08608	.18071
4.020	2.000	.07866	.07671	.15537
4.020	4.000	.06052	.07516	.13568
4.020	6.000	.04521	.06984	.11505
4.020	8.000	.03695	.06341	.10036
4.020	10.000	.03499	.05697	.09196
4.020	12.000	.03217	.05072	.08289
4.020	14.000	.02840	.04404	.07244
4.020	16.000	.02138	.03723	.05861
4.020	18.000	.01596	.03117	.04713
4.020	20.000	.01299	.02861	.04160
4.020	22.000	.01044	.02613	.03657
4.020	24.000	.00690	.02219	.02909
4.020	26.000	.00420	.01803	.02223
4.020	27.000	.00285	.01545	.01830
GRADIENT		-.00713	-.00328	-.01041

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 83

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(ATV029) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
LREF = 474.8100 IN. YMRP = .0000 IN.Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -40.000
ELV-LI = -40.000 ELV-RI = -40.000
ELV-RO = -40.000 BDFLAP = .000
SPOBRK = 55085.000 RUDDER = .000

RUN NO. 64/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
5.020	-2.000	.08660	.11837	.20496
5.020	.000	.06861	.09902	.16764
5.020	2.000	.05177	.08489	.13666
5.020	4.000	.04416	.07231	.11647
5.020	6.000	.03245	.06429	.09674
5.020	8.000	.02681	.05474	.08155
5.020	10.000	.02306	.04405	.06710
5.020	12.000	.01983	.03779	.05762
5.020	14.000	.01385	.03100	.04484
5.020	16.000	.01054	.02696	.03750
5.020	18.000	.00760	.02134	.02894
5.020	20.000	.00621	.01783	.02405
5.020	22.000	.00543	.01565	.02108
5.020	24.000	.00489	.01333	.01822
5.020	26.000	.00465	.01126	.01591
	GRADIENT	-.00664	-.00674	-.01338

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 04

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(ATV030) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = -40.000 ELV-R1 = -40.000
 ELV-R0 = .000 BDFLAP = .000
 SPDGRK = 55085.000 RUDDER = .000

RUN NO. 65/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
5.020	-2.000	.09176	.00452	.09628
5.020	.000	.07212	.00196	.07408
5.020	2.000	.05820	-.00017	.05803
5.020	4.000	.04348	-.00207	.04141
5.020	6.000	.03118	-.00349	.02770
5.020	8.000	.02560	-.00589	.01972
5.020	10.000	.02073	-.00854	.01219
5.020	12.000	.01786	-.01165	.00621
5.020	14.000	.01367	-.01492	-.00124
5.020	16.000	.01044	-.01810	-.00765
5.020	18.000	.00794	-.02145	-.01351
5.020	20.000	.00476	-.02491	-.02015
5.020	22.000	.00339	-.02860	-.02520
5.020	24.000	.00290	-.03309	-.03018
5.020	26.000	.00261	-.03796	-.03535
	GRADIENT	-.00749	-.00100	-.00849

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 85

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(ATV031) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = -40.000 ELV-RI = -40.000
ELV-RO = -20.000 BDFLAP = .000
SPOBRK = 55085.000 RUDDER = .000

RUN NO. 66/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHEO	CHET
5.020	-2.000	.09185	.00398	.09583
5.020	.000	.07115	.00136	.07251
5.020	2.000	.05872	-.00062	.05810
5.020	4.000	.04403	-.00254	.04149
5.020	6.000	.03178	-.00411	.02767
5.020	8.000	.02638	-.00651	.01987
5.020	10.000	.02144	-.00915	.01229
5.020	12.000	.01826	-.01222	.00604
5.020	14.000	.01441	-.01558	-.00118
5.020	16.000	.01100	-.01878	-.00778
5.020	18.000	.00838	-.02218	-.01379
5.020	20.000	.00499	-.02559	-.02060
5.020	22.000	.00400	-.02940	-.02540
5.020	24.000	.00328	-.03380	-.03052
5.020	26.000	.00298	-.03871	-.03573
	GRADIENT	-.00736	-.00100	-.00837

DATE 10 JUL 75

TABULATED SOURCE DATA - 04115

PAGE 86

04115 826 C9 E43 F8 M18 N28 R5 V8 M116

(ATV032) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

RUN NO. 70/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 6.00

BETA = .000 ELV-L0 = -20.000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = -20.000 BOFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

PARAMETRIC DATA

MACH	ALPHA	CHEI	CHE0	CHEI
5.020	-2.000	.00670	.03946	.04615
5.020	.000	.00382	.03059	.03441
5.020	2.000	.00035	.02474	.02509
5.020	4.000	-.00326	.02021	.01695
5.020	6.000	-.00752	.01601	.00850
5.020	8.000	-.01197	.01264	.00067
5.020	10.000	-.01769	.00872	-.00897
5.020	12.000	-.02342	.00616	-.01726
5.020	14.000	-.02924	.00386	-.02539
5.020	16.000	-.03541	.00188	-.03353
5.020	18.000	-.04242	.00031	-.04211
5.020	20.000	-.04977	-.00089	-.05037
5.020	22.000	-.05702	-.00219	-.05921
5.020	24.000	-.06677	-.00335	-.07012
5.020	26.000	-.07695	-.00432	-.08127
5.020		-.00177	-.00286	-.00464

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 87

0A115 826 C9 E43 F8 H16 N28 R5 V8 W116

(ATV033) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
LREF = 474.8100 IN. YMRP = .0000 IN.Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = -20.000 BDFLAP = .000
SPDBRK = 55085.000 RUDDER = .000

RUN NO. 68/ 0 RN/L = 2.58 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
5.020	-2.000	.00646	.00384	.01030
5.020	.000	.00351	.00086	.00437
5.020	2.000	-.00012	-.00097	-.00109
5.020	4.000	-.00357	-.00271	-.00628
5.020	6.000	-.00784	-.00427	-.01211
5.020	8.000	-.01183	-.00680	-.01863
5.020	10.000	-.01768	-.00960	-.02728
5.020	12.000	-.02352	-.01275	-.03627
5.020	14.000	-.02983	-.01622	-.04605
5.020	16.000	-.03603	-.01957	-.05560
5.020	18.000	-.04306	-.02290	-.06596
5.020	20.000	-.05026	-.02640	-.07666
5.020	22.000	-.05810	-.03034	-.08844
5.020	24.000	-.06749	-.03490	-.10239
5.020	26.000	-.07828	-.03992	-.11820
	GRADIENT	-.00178	-.00099	-.00277

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 88

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(ATV034) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = -20.000 ELV-RI = -20.000
ELV-RO = .000 BOFLAP = .000
SPOBRK = 55085.000 RUDDER = .000

RUN NO. 69/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE7
5.020	-2.000	.04490	.00418	.04907
5.020	.000	.03692	.00122	.03814
5.020	2.000	.02473	-.00076	.02398
5.020	4.000	.01613	-.00238	.01376
5.020	6.000	.00893	-.00376	.00516
5.020	8.000	.00650	-.00613	.00037
5.020	10.000	.00537	-.00885	-.00347
5.020	12.000	.00393	-.01197	-.00804
5.020	14.000	.00174	-.01532	-.01358
5.020	16.000	-.00040	-.01875	-.01915
5.020	18.000	-.00269	-.02196	-.02465
5.020	20.000	-.00441	-.02535	-.02975
5.020	22.000	-.00624	-.02913	-.03538
5.020	24.000	-.00894	-.03352	-.04246
5.020	26.000	-.01227	-.03837	-.05064
	GRADIENT	-.00464	-.00097	-.00561

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 82

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV035) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 10.000 ELV-RI = -10.000
 ELV-RO = -20.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 71/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
5.020	-2.000	-.00293	.00425	.00132
5.020	.000	-.00823	.00127	-.00697
5.020	2.000	-.01491	-.00067	-.01558
5.020	4.000	-.02236	-.00247	-.02483
5.020	6.000	-.03085	-.00416	-.03500
5.020	8.000	-.03976	-.00662	-.04637
5.020	10.000	-.05052	-.00944	-.05995
5.020	12.000	-.06190	-.01264	-.07454
5.020	14.000	-.07383	-.01605	-.08988
5.020	16.000	-.08633	-.01936	-.10569
5.020	18.000	-.09915	-.02269	-.12184
5.020	20.000	-.11169	-.02609	-.13777
5.020	22.000	-.12528	-.03014	-.15542
5.020	24.000	-.14128	-.03475	-.17603
5.020	26.000	-.15821	-.03990	-.19811
	GRADIENT	-.00350	-.00103	-.00453

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV036) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-LI = 10.000 ELV-RI = -10.000
 ELV-RO = -20.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 72/ 0 RN/L = 2.56 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHEI	CHEO	CHET	CPSC	CP81	CP82	CP83	CP84	CP85
5.020	-3.009	-.13767	-.03194	-.16960	-.04050	-.04179	-.04085	-.03989	-.04258	-.04172
5.020	-2.005	-.13538	-.03136	-.16674	-.04025	-.04129	-.04059	-.04001	-.04233	-.04134
5.020	-1.001	-.13358	-.03025	-.16381	-.03978	-.04119	-.04049	-.04002	-.04162	-.04099
5.020	.006	-.12903	-.02900	-.15804	-.03928	-.04093	-.04047	-.03964	-.04088	-.04037
5.020	1.021	-.12663	-.02850	-.15513	-.03952	-.04166	-.04120	-.04001	-.04112	-.04062
5.020	2.020	-.12535	-.02801	-.15336	-.04048	-.04238	-.04204	-.04096	-.04160	-.04158
5.020	3.024	-.12354	-.02779	-.15133	-.04086	-.04276	-.04266	-.04159	-.04198	-.04232
	GRADIENT	.00246	.00074	.00320	-.00005	-.00020	-.00032	-.00025	.00013	-.00007

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 90

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(ATV037) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
 ELV-LI = -10.000 ELV-RI = -10.000
 ELV-RO = -10.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 73/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
5.020	-2.000	.01987	-.00325	.01862
5.020	.000	.01509	-.00568	.00941
5.020	2.000	.00884	-.00830	.00054
5.020	4.000	.00416	-.01121	-.00705
5.020	6.000	.00112	-.01500	-.01388
5.020	8.000	-.00023	-.01907	-.01930
5.020	10.000	-.00256	-.02392	-.02648
5.020	12.000	-.00581	-.02950	-.03532
5.020	14.000	-.00904	-.03544	-.04448
5.020	16.000	-.01193	-.04163	-.05356
5.020	18.000	-.01557	-.04741	-.06298
5.020	20.000	-.01925	-.05320	-.07245
5.020	22.000	-.02306	-.05970	-.08277
5.020	24.000	-.02822	-.06683	-.09506
5.020	26.000	-.03429	-.07440	-.10869
	GRADIENT	-.00242	-.00145	-.00387

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(ATV038) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = 10.000
 ELV-LI = -10.000 ELV-RI = -10.000
 ELV-RO = -10.000 BDFLAP = .000
 SPDBRK = 55085.000 RUDDER = .000

RUN NO. 74/ 0 RN/L = 2.57 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHEI	CHEO	CHET	CPSC	CP81	CP82	CP83	CP84	CP85
5.020	-3.021	-.01995	-.06038	-.08033	-.04063	-.04167	-.04170	-.04160	-.04211	-.04196
5.020	-2.010	-.02030	-.06008	-.08038	-.04050	-.04179	-.04181	-.04147	-.04185	-.04183
5.020	-1.006	-.02080	-.05899	-.07979	-.04024	-.04177	-.04204	-.04145	-.04172	-.04145
5.020	.004	-.02092	-.05737	-.07829	-.03965	-.04166	-.04181	-.04122	-.04149	-.04074
5.020	1.019	-.02130	-.05701	-.07831	-.03952	-.04166	-.04144	-.04061	-.04100	-.04061
5.020	2.022	-.02228	-.05672	-.07900	-.04012	-.04214	-.04217	-.04133	-.04136	-.04158
5.020	3.021	-.02305	-.05653	-.07958	-.04048	-.04238	-.04252	-.04157	-.04160	-.04206
	GRADIENT	-.00049	.00072	.00023	.00007	-.00010	-.00009	.00004	.00011	.00004

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 91

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV039) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
LREF = 474.8100 IN. YMRP = .0000 IN.Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-L1 = -10.000 ELV-R1 = -10.000
ELV-R0 = .000 BDFLAP = .000
SPDBRK = 55085.000 RUDDER = .000

RUN NO. 75/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE2
5.020	-2.000	.02016	.00431	.02447
5.020	.000	.01532	.00130	.01662
5.020	2.000	.00882	-.00051	.00830
5.020	4.000	.00394	-.00203	.00191
5.020	6.000	.00117	-.00359	-.00241
5.020	8.000	-.00018	-.00604	-.00622
5.020	10.000	-.00254	-.00876	-.01130
5.020	12.000	-.00557	-.01190	-.01748
5.020	14.000	-.00901	-.01517	-.02418
5.020	16.000	-.01182	-.01848	-.03030
5.020	18.000	-.01558	-.02171	-.03730
5.020	20.000	-.01916	-.02505	-.04421
5.020	22.000	-.02263	-.02884	-.05148
5.020	24.000	-.02796	-.03325	-.06121
5.020	26.000	-.03397	-.03820	-.07217
	GRADIENT	-.00247	-.00096	-.00342

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 92

0A115 B26 C9 E43 F8 H16 N28 R5 V8 W116

(ATV040) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = 10.000 ELV-RI = 10.000
ELV-RO = .000 BDFLAP = .000
SPDBRK = 55085.000 RUDDER = .000

RUN NO. 76/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHEO	CHET
5.020	-2.000	-.00309	.00410	.00102
5.020	.000	-.00821	.00114	-.00707
5.020	2.000	-.01487	-.00072	-.01559
5.020	4.000	-.02212	-.00259	-.02471
5.020	6.000	-.03022	-.00426	-.03447
5.020	8.000	-.03907	-.00673	-.04580
5.020	10.000	-.04951	-.00949	-.05900
5.020	12.000	-.06096	-.01258	-.07355
5.020	14.000	-.07287	-.01591	-.08878
5.020	16.000	-.08488	-.01916	-.10404
5.020	18.000	-.09726	-.02241	-.11967
5.020	20.000	-.10966	-.02579	-.13546
5.020	22.000	-.12306	-.02972	-.15278
5.020	24.000	-.13881	-.03429	-.17310
5.020	26.000	-.15564	-.03937	-.19501
	GRADIENT	-.00341	-.00102	-.00443

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 93

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV041) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
LREF = 474.8100 IN. YMRP = .0000 IN.Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = -20.000 ELV-R1 = -20.000
ELV-RO = -10.000 BDFLAP = .000
SPOBRK = 55085.000 RUDDER = .000

RUN NO. 77/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHEI	CHEO	CHET
5.020	-2.000	.04515	.00443	.04959
5.020	.000	.03654	.00139	.03793
5.020	2.000	.02398	-.00049	.02349
5.020	4.000	.01545	-.00209	.01335
5.020	6.000	.00840	-.00354	.00486
5.020	8.000	.00614	-.00591	.00023
5.020	10.000	.00492	-.00852	-.00360
5.020	12.000	.00361	-.01165	-.00804
5.020	14.000	.00161	-.01495	-.01335
5.020	16.000	-.00044	-.01820	-.01864
5.020	18.000	-.00271	-.02141	-.02413
5.020	20.000	-.00447	-.02462	-.02909
5.020	22.000	-.00607	-.02838	-.03445
5.020	24.000	-.00883	-.03274	-.04157
5.020	26.000	-.01190	-.03762	-.04952
	GRADIENT	-.00473	-.00097	-.00570

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 94

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 N24

(ATV042) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -20.000
 ELV-LI = -20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BDFLAP = .000
 SPD8RK = 55085.000 RUDDER = .000

RUN NO. 78/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
5.020	-2.000	.04724	.04082	.08806
5.020	.000	.03748	.03139	.06887
5.020	2.000	.02513	.02547	.05060
5.020	4.000	.01741	.02039	.03780
5.020	6.000	.00972	.01608	.02580
5.020	8.000	.00681	.01252	.01933
5.020	10.000	.00510	.00857	.01368
5.020	12.000	.00399	.00593	.00992
5.020	14.000	.00120	.00349	.00469
5.020	16.000	-.00157	.00166	.00009
5.020	18.000	-.00418	.00014	-.00404
5.020	20.000	-.00812	-.00111	-.00723
5.020	22.000	-.00792	-.00241	-.01032
5.020	24.000	-.01085	-.00334	-.01419
5.020	26.000	-.01478	-.00460	-.01938
	GRADIENT	-.00476	-.00302	-.00778

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 N24

(ATV043) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = -20.000
 ELV-LI = -20.000 ELV-RI = -20.000
 ELV-RO = -20.000 BDFLAP = .000
 SPD8RK = 55085.000 RUDDER = .000

RUN NO. 79/ 0 RN/L = 2.57 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHE1	CHE0	CHET	CPSC	CP81	CP82	CP83	CP84	CP85
5.020	-3.011	-.00394	-.00210	-.00604	-.04002	-.04083	-.04061	-.04063	-.04005	-.04112
5.020	-2.015	-.00500	-.00213	-.00712	-.03989	-.04081	-.04072	-.04061	-.03967	-.04074
5.020	-1.008	-.00611	-.00171	-.00781	-.03979	-.04083	-.04086	-.04027	-.03994	-.04040
5.020	.000	-.00694	-.00205	-.00898	-.03953	-.04069	-.04072	-.04001	-.04028	-.04002
5.020	1.011	-.03795	-.00203	-.00998	-.03941	-.04081	-.04060	-.03999	-.04040	-.04002
5.020	2.023	-.00921	-.00216	-.01138	-.03954	-.04131	-.04098	-.04027	-.04090	-.04051
5.020	3.019	-.01002	-.00190	-.01192	-.04001	-.04190	-.04156	-.04061	-.04124	-.04098
	GRADIENT	-.00101	.00001	-.00100	.00004	-.00015	-.00011	.00004	-.00023	.00004

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 95

0A115 B26 C9 E43 F8 M16 N28 R5 V8 W116 SEAL

(ATV044) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
LREF = 474.8100 IN. YMRP = .0000 IN.Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = -20.000
ELV-LI = -20.000 ELV-RI = -20.000
ELV-RO = -20.000 BDFLAP = .000
SPDRK = 55.000 RUDDER = .000

RUN NO. 99/ 0 RN/L = 2.31 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET
2.000	-2.000	.16714	.04931	.21645
2.000	.000	.15719	.04065	.19784
2.000	2.000	.14295	.03181	.17476
2.000	4.000	.12046	.02391	.14438
2.000	6.000	.09499	.01672	.11371
2.000	8.000	.07682	.01420	.09102
2.000	10.000	.06478	.01204	.07682
2.000	12.000	.05481	.00811	.06292
2.000	14.000	.04640	.00440	.05080
2.000	16.000	.03424	-.00094	.03330
2.000	18.000	.02377	-.00247	.02129
2.000	20.000	.01078	-.00484	.00594
2.000	22.000	-.00044	-.00848	-.00892
2.000	24.000	-.00790	-.01161	-.01951
2.000	26.000	-.01590	-.01416	-.03007
2.000	27.000	-.01854	-.01521	-.03374
	GRADIENT	-.00905	-.00390	-.01295

DATE 10 JUL 75

TABULATED SOURCE DATA - OA115

PAGE 96

OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV045) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 15/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
5.020	-2.486	.00597	.00417	.01013	-.03779	-.03785	-.03850	-.03803	-.03806	-.03779
5.020	-.043	.00285	.00105	.00391	-.03767	-.03761	-.04034	-.03779	-.03794	-.03767
5.020	3.970	-.00398	-.00238	-.00636	-.03864	-.03920	-.04192	-.03913	-.03953	-.03865
5.020	8.006	-.01229	-.00659	-.01888	-.03924	-.03943	-.04044	-.03936	-.03976	-.03937
5.020	12.105	-.02389	-.01265	-.03655	-.04000	-.04007	-.04047	-.03987	-.04027	-.04013
5.020	16.143	-.03610	-.01933	-.05543	-.03950	-.03970	-.03972	-.03962	-.04038	-.03975
5.020	20.194	-.05027	-.02652	-.07679	-.03899	-.03980	-.04044	-.03972	-.04012	-.03973
5.020	24.287	-.06852	-.03547	-.10400	-.04048	-.04080	-.04119	-.04060	-.04172	-.04171
5.020	27.107	-.08514	-.04302	-.12817	-.04072	-.04153	-.04094	-.04145	-.04269	-.04280
	GRADIENT	-.00156	-.00100	-.00255	-.00014	-.00023	-.00052	-.00019	-.00024	-.00014

OA115 B26 C9 E43 F8 M16 N28 R5 V8 W116

(ATV046) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 21.000 ELV-LO = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 16/ 0 RN/L = 2.56 GRADIENT INTERVAL = -4.00/ 4.00

MACH	BETA	CHE1	CHE0	CHET	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
5.020	-3.016	-.05774	-.03151	-.08925	-.04096	-.04312	-.04278	-.04182	-.04282	-.04280
5.020	-2.013	-.05722	-.03093	-.08815	-.04059	-.04238	-.04241	-.04120	-.04195	-.04194
5.020	-1.011	-.05705	-.03028	-.08733	-.04011	-.04166	-.04205	-.04084	-.04148	-.04122
5.020	-.000	-.05571	-.02894	-.08465	-.03902	-.04068	-.04169	-.03999	-.04051	-.03998
5.020	1.012	-.05533	-.02835	-.08368	-.03974	-.04141	-.04156	-.04047	-.04135	-.04073
5.020	2.016	-.05514	-.02788	-.08302	-.04060	-.04178	-.04168	-.04084	-.04172	-.04170
5.020	3.023	-.05527	-.02754	-.08281	-.04086	-.04216	-.04169	-.04122	-.04222	-.04233
	GRADIENT	.00047	.00071	.00118	.00002	.00015	.00018	.00010	.00008	.00008

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 97

0A115 028 C9 E43 F8 M16 N28 R5 V8 W116

(ATV047) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
LREF = 474.8100 IN. YMRP = .0000 IN.Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
ELV-LI = .000 ELV-RI = .000
ELV-RO = -10.000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000

RUN NO. 90/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE2
4.020	-2.000	.00915	-.00543	.00372
4.020	.000	.00439	-.00793	-.00354
4.020	2.000	-.00131	-.01149	-.01279
4.020	4.000	-.00662	-.01550	-.02212
4.020	6.000	-.01204	-.01991	-.03194
4.020	8.000	-.01742	-.02439	-.04181
4.020	10.000	-.02472	-.02939	-.05411
4.020	12.000	-.03241	-.03476	-.06717
4.020	14.000	-.04076	-.04053	-.08129
4.020	16.000	-.04934	-.04658	-.09592
4.020	18.000	-.05840	-.05277	-.11117
4.020	20.000	-.06808	-.05922	-.12731
4.020	22.000	-.07918	-.06617	-.14535
4.020	24.000	-.08855	-.07336	-.16192
4.020	26.000	-.09542	-.08106	-.17748
4.020	27.000	-.09977	-.08486	-.18463
	GRADIENT	-.00267	-.00183	-.00450

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 10 JUL 75

TABULATED SOURCE DATA - OA115

PAGE 98

OA115 B26 C9 E43 F8 M16 N20 R5 V8 W116

(ATV048) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
 LREF = 474.8100 IN. YMRP = .0000 IN.YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 81/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE7	CPSC	CP81	CP82	CP83	CP84	CP85
4.020	-2.673	.01167	.00471	.01638	-.05906	-.05936	-.05216	-.05983	-.05980	-.05945
4.020	-.112	.00485	.00166	.00651	-.06034	-.06088	-.05921	-.06088	-.06093	-.06081
4.020	3.951	-.00636	-.00347	-.00983	-.06172	-.06257	-.05654	-.06265	-.06261	-.06196
4.020	8.090	-.01723	-.00947	-.02670	-.06362	-.06393	-.06071	-.06416	-.06474	-.06409
4.020	12.134	-.03114	-.01618	-.04732	-.06359	-.06337	-.06278	-.06390	-.06480	-.06383
4.020	16.238	-.04638	-.02387	-.07025	-.06222	-.06214	-.06343	-.06299	-.06412	-.06292
4.020	20.359	-.06255	-.03223	-.09478	-.06219	-.06266	-.06294	-.06304	-.06503	-.06328
4.020	24.474	-.08456	-.04213	-.12670	-.06321	-.06415	-.06489	-.06445	-.06542	-.06438
4.020	27.239	-.10065	-.04961	-.15026	-.06445	-.06524	-.06598	-.06616	-.06698	-.06609
	GRADIENT	-.00273	-.00124	-.00396	-.00040	-.00048	-.00054	-.00043	-.00042	-.00037

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 99

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(ATV049) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-L1 = .000 ELV-R1 = .000
ELV-R0 = .000 SDFLAP = .000
SPDRK = 85.000 RUDDER = .000

RUN NO. 5/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE2
2.500	-2.000	.03478	.00487	.03963
2.500	.000	.02368	.00005	.02373
2.500	2.000	.00799	-.00422	.00377
2.500	4.000	-.00614	-.00879	-.01493
2.500	6.000	-.01807	-.01330	-.03137
2.500	8.000	-.02767	-.01784	-.04550
2.500	10.000	-.03721	-.02243	-.05963
2.500	12.000	-.04800	-.02678	-.07478
2.500	14.000	-.06045	-.03168	-.09213
2.500	16.000	-.07129	-.03649	-.10779
2.500	18.000	-.08239	-.04152	-.12391
2.500	20.000	-.09400	-.04712	-.14112
2.500	22.000	-.10673	-.05269	-.15942
2.500	24.000	-.11996	-.05832	-.17828
2.500	26.000	-.13328	-.06382	-.19710
2.500	27.000	-.13921	-.06638	-.20559
	GRADIENT	-.00677	-.00226	-.00903

DATE 10 JUL 75

TABULATED SOURCE DATA - 0A115

PAGE 100

0A115 826 C9 E43 F8 M16 N28 R5 V8 W116

(ATV050) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 85.000 RUDDER = -10.000

RUN NO. 104/ 0 RN/L = 2.34 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE7	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
2.000	-2.486	.05330	.00756	.06086	-.17185	-.18403	-.19046	-.18288	-.18083	-.17607
2.000	.113	.03339	-.00180	.03159	-.17726	-.18861	-.19264	-.18578	-.18190	-.18240
2.000	4.183	-.00102	-.01504	-.01606	-.17809	-.18618	-.18849	-.18513	-.18422	-.18294
2.000	8.290	-.03360	-.02509	-.05869	-.17665	-.18670	-.18723	-.18565	-.18480	-.18696
2.000	12.458	-.06226	-.03668	-.09894	-.18607	-.18659	-.19781	-.19131	-.19313	-.19101
2.000	16.556	-.09111	-.04733	-.13844	-.20202	-.20482	-.18646	-.20956	-.21004	-.20577
2.000	20.707	-.12226	-.05813	-.18039	-.21440	-.21979	-.18783	-.22265	-.22443	-.22000
2.000	24.836	-.15331	-.06802	-.22133	-.22403	-.22623	-.11346	-.23132	-.23296	-.22854
2.000	27.729	-.16735	-.07186	-.23921	-.22125	-.21975	-.23130	-.23634	-.23465	-.22929
	GRADIENT	-.00817	-.00338	-.01155	-.00087	-.00024	.00036	-.00029	-.00051	-.00095

0A115 826 C9 E43 F8 M7 N28 R5 V8 W116

(ATV051) (01 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.X0
 LREF = 474.8100 IN. YMRP = .0000 IN.Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = -10.000

RUN NO. 98/ 0 RN/L = 2.32 GRADIENT INTERVAL = -5.00/ 6.00

MACH	ALPHA	CHE1	CHE0	CHE7	CPSC	CPB1	CPB2	CPB3	CPB4	CPB5
2.000	-2.520	.04892	.00768	.05660	-.15916	-.16779	-.16853	-.17007	-.16482	-.16495
2.000	.002	.03078	-.00135	.02941	-.16478	-.17313	-.17466	-.17590	-.17151	-.17142
2.000	4.091	-.00379	-.01534	-.01913	-.16962	-.17032	-.17693	-.17196	-.17210	-.17035
2.000	8.211	-.03551	-.02519	-.06071	-.16362	-.16304	-.17280	-.16624	-.16651	-.16791
2.000	12.369	-.06490	-.03697	-.10187	-.17322	-.17706	-.18447	-.17568	-.17731	-.17810
2.000	16.505	-.09316	-.04804	-.14120	-.19476	-.19306	-.19500	-.20045	-.20324	-.19888
2.000	20.652	-.12255	-.05899	-.18154	-.21676	-.21680	-.21348	-.21955	-.22202	-.21765
2.000	24.762	-.15343	-.06918	-.22261	-.22862	-.22881	-.19744	-.23136	-.23317	-.23019
2.000	27.673	-.16930	-.07306	-.24236	-.22751	-.22660	-.21196	-.23385	-.23343	-.23054
	GRADIENT	-.00802	-.00348	-.01150	-.00154	-.00028	-.00120	-.00017	-.00101	-.00071